Linear Equation In One Variable

Ex-9.1

Linear Equation in one variable

$$\frac{2\pi \cdot 9\cdot 1}{4} = \frac{36 + 1}{4} = \frac{37}{4}$$
 $\frac{1}{3} = \frac{36 + 1}{3} = \frac{37}{4}$
 $\frac{37}{4} = \frac{4}{3} = \frac{4}{3}$
 $\frac{37}{4} + \frac{4}{3} = \frac{4}{3} = \frac{4}{3}$
 $\frac{37}{4} + \frac{4}{3} = \frac{4}{3}$
 $\frac{37}{4} = \frac{127}{12} - \frac{4}{3}$
 $\frac{37}{4} = \frac{127}{12} - \frac{4}{3}$
 $\frac{37}{4} = \frac{127}{12} - \frac{4}{3}$
 $\frac{37}{4} = \frac{177}{12} - \frac{4}{3}$

Let $\cdot \cdot \cdot \cdot = R \cdot H \cdot S$

$$\frac{3}{5\pi} + \frac{2}{5} - \frac{2}{5} = 1 - \frac{2}{5}$$
 [subtracting $\frac{2}{5}$ on b/s]

$$\frac{5\pi}{3} = \frac{5^{-9}}{5}$$

$$x = \frac{3}{3} \times \frac{1}{3}$$

$$x = \frac{2}{3}\sqrt{\frac{2}{3}}$$

$$\alpha = \frac{9}{25}$$

Substitute
$$\frac{9}{3}$$
 in $\frac{89}{3}$.

$$\left(\frac{8}{3}\right)\left(\frac{3^{\frac{1}{3}}3}{5^{\frac{1}{5}}}\right) + \frac{2}{5} = 1$$

$$\frac{3}{5} \rightarrow \frac{2}{5} = 1$$

Hence proved.

(3)
$$\frac{7}{2} + \frac{74}{3} + \frac{7}{4} = 13$$
.

C.C.M of 2,3,4 is 12

Multiply 12 on both sides

($\frac{21}{2} + \frac{7}{3} + \frac{7}{4}$) 12 = 13×12

12× $\frac{7}{4}$ + 12× $\frac{7}{3}$ + 12× $\frac{7}{4}$ = 156

6× $\frac{7}{4}$ + $\frac{7}{4}$ + $\frac{7}{4}$ + $\frac{7}{4}$ = 156

6× $\frac{7}{4}$ + $\frac{7}{4}$ + $\frac{7}{4}$ = 156

[$\frac{7}{4}$ = 17]

Substitute a in Equation.

12 + $\frac{12}{3}$ + $\frac{12}{4}$ = 13

 $\frac{7}{4}$ + $\frac{7}{4}$ + $\frac{12}{4}$ = 13

 $\frac{7}{4}$ + $\frac{7}{4}$ + $\frac{12}{4}$ = 13

6 + 4 + 3 = 13

Hence verfield

(4)
$$\frac{7}{2} + \frac{7}{8} = \frac{1}{8}$$

1. C. M. of 2, 8 : 1 8.

Multiple with 8 on both sidy.

 $\left(\frac{x}{2} + \frac{7}{8}\right) 8 = \frac{1}{8} \times 8$

$$\left(\frac{x}{2} + \frac{1}{8}\right) 8 = \frac{1}{8} \times 8$$

$$4x + x = 1$$

$$5x = 1$$

$$5x = \frac{1}{5}$$
[dividing & with 5]

Jubstitute value in eq.

$$\frac{\left(\frac{1}{5}\right)}{2}$$
 + $\frac{\left(\frac{1}{5}\right)}{8}$ = $\frac{1}{8}$

$$\frac{1}{10} + \frac{1}{40} = \frac{10}{80} \frac{1}{8}$$

$$\frac{4}{4\times 10} + \frac{1}{40} = \frac{1}{80}$$

$$\frac{5}{40} = \frac{1}{8}$$

$$\frac{5}{8} = \frac{1}{8}$$
Hence unfield.

 $\frac{4x}{3x4} - \frac{3x^3}{4x^3} = \frac{7}{12}$

 $\frac{16}{12} - \frac{9}{12} = \frac{7}{12}$ $\frac{1}{12} = \frac{7}{12}$ (.45 = R.H.6

(c)
$$(x+2)(x+3) + (x-3)(x-2) - 2x(x+1) = 0$$
.
we know that $(x+a)(x+b) = x^2 + ab + ax + bx$.
i. $eq = 0$.
ii) $x^2 + 2x + 3x + 6 + x^2$. $3x - 2x + 6$.
 $-2x^2 - 2x = 0$.
iii) $x^2 + 5x + 6 - 5x + 6 - 2x^2 - 2x = 0$.
iii) $x = 6$.
(a) $x = 6$.
(b) $x = 6$.
(c) $x = 6$.
(e) $x = 6$.
(e) $x = 6$.
iii) $x = 6$.
iii) $x = 6$.
Hence we feet.

(1)
$$\frac{\pi}{2} - \frac{4}{5} + \frac{3}{5} + \frac{3\pi}{10} = \frac{1}{5}$$

(1. C. M of 2, I, 10 is 10.

multiply the Eq. with 10 on hothsides

10 $\left(\frac{\pi}{2} - \frac{4}{5} + \frac{3\pi}{5} + \frac{3\pi}{10}\right) = +10x\frac{1}{5}$
 $7x5 \times \frac{\pi}{2} - \cancel{5}x2 \times \frac{4}{5} + \cancel{5}x2 \times \frac{\pi}{5} + 10x\frac{3\pi}{19} = \cancel{5}x2 \times \frac{1}{5}$
 $5x - 8 + 2x + 3x = 2$
 $10x - 8 = 2$
 $10x - 8 = 2 + 8$
 $10x - 8 + 8 = 2 + 8$
 $10x = 10$
 $x = \frac{10}{10}$
 $x = 1$

Sub value of x in Eq.

 $\frac{1}{2} - \frac{4}{5} + \frac{1}{5} + \frac{3(1)}{10} = \frac{1}{5}$
 $\frac{1}{2} - \frac{4}{5} + \frac{1}{5} + \frac{3(1)}{10} = \frac{1}{5}$
 $\frac{1}{2} - \frac{4}{2} + \frac{1}{2} + \frac{3}{2} + \frac{1}{2} = \frac{1}{5}$
 $\frac{1}{2} - \frac{4}{2} + \frac{1}{2} + \frac{1}{2} + \frac{3}{2} = \frac{1}{5}$

 $\frac{-3+3+2}{5} = \frac{1}{5} \Rightarrow \left[\frac{1}{5} = \frac{1}{5}\right]$

(8)
$$\frac{1}{3} + 35 = \frac{1}{10}$$

multiply g_{g} , with x^{2} on bothsides

 $\frac{1}{3} \times x^{2} + 35 \times x^{2} = \frac{1}{10} \times x^{2}$.

 $\frac{1}{3} \times x^{2} + 35 \times x^{2} = \frac{1}{10} \times x^{2}$.

 $\frac{1}{3} \times x^{2} + 35 \times x^{2} = \frac{1}{10} \times x^{2}$.

 $\frac{1}{3} \times x^{2} + 35 \times x^{2} = \frac{1}{10} \times x^{2}$.

 $\frac{1}{3} \times x^{2} + 35 \times x^{2} = \frac{1}{10} \times x^{2}$.

 $\frac{1}{3} \times x^{2} + 35 \times x^{2} = \frac{1}{10} \times x^{2}$.

 $\frac{1}{3} \times x^{2} + 35 \times x^{2} = \frac{1}{10} \times x^{2}$.

 $\frac{1}{3} \times x^{2} + 35 \times x^{2} = \frac{1}{10} \times x^{2}$.

 $\frac{1}{3} \times x^{2} + 35 \times x^{2} = \frac{1}{10} \times x^{2}$.

 $\frac{1}{3} \times x^{2} + 35 \times x^{2} = \frac{1}{10} \times x^{2}$.

 $\frac{1}{3} \times x^{2} + 35 \times x^{2} = \frac{1}{10} \times x^{2}$.

 $\frac{1}{3} \times x^{2} + 35 \times x^{2} = \frac{1}{10} \times x^{2}$.

 $\frac{1}{3} \times x^{2} + 35 \times x^{2} = \frac{1}{10} \times x^{2}$.

 $\frac{1}{3} \times x^{2} + 35 \times x^{2} = \frac{1}{10} \times x^{2}$.

 $\frac{1}{3} \times x^{2} + 35 \times x^{2} = \frac{1}{10} \times x^{2}$.

 $\frac{1}{3} \times x^{2} + 35 \times x^{2} = \frac{1}{10} \times x^{2}$.

 $\frac{1}{3} \times x^{2} + 35 \times x^{2} = \frac{1}{10} \times x^{2}$.

 $\frac{1}{3} \times x^{2} + 35 \times x^{2} = \frac{1}{10} \times x^{2}$.

 $\frac{1}{3} \times x^{2} + 35 \times x^{2} = \frac{1}{10} \times x^{2}$.

 $\frac{1}{3} \times x^{2} + 35 \times x^{2} = \frac{1}{10} \times x^{2}$.

 $\frac{1}{3} \times x^{2} + 35 \times x^{2} = \frac{1}{10} \times x^{2}$.

 $\frac{1}{3} \times x^{2} + 35 \times x^{2} = \frac{1}{10} \times x^{2}$.

 $\frac{1}{3} \times x^{2} + 35 \times x^{2} = \frac{1}{10} \times x^{2}$.

 $\frac{1}{3} \times x^{2} + 35 \times x^{2} = \frac{1}{10} \times x^{2}$.

 $\frac{1}{3} \times x^{2} + 35 \times x^{2} = \frac{1}{10} \times x^{2}$.

 $\frac{1}{3} \times x^{2} + 35 \times x^{2} = \frac{1}{10} \times x^{2}$.

 $\frac{1}{3} \times x^{2} + 35 \times x^{2} = \frac{1}{10} \times x^{2}$.

 $\frac{1}{3} \times x^{2} + 35 \times x^{2} = \frac{1}{10} \times x^{2}$.

 $\frac{1}{3} \times x^{2} + 35 \times x^{2} = \frac{1}{10} \times x^{2}$.

 $\frac{1}{3} \times x^{2} + 35 \times x^{2} = \frac{1}{10} \times x^{2}$.

 $\frac{1}{3} \times x^{2} + 35 \times x^{2} = \frac{1}{10} \times x^{2}$.

 $\frac{1}{3} \times x^{2} + 35 \times x^{2} = \frac{1}{10} \times x^{2}$.

 $\frac{1}{3} \times x^{2} + 35 \times x^{2} = \frac{1}{10} \times x^{2}$.

 $\frac{1}{3} \times x^{2} + 35 \times x^{2} = \frac{1}{10} \times x^{2}$.

 $\frac{1}{3} \times x^{2} + 35 \times x^{2} = \frac{1}{10} \times x^{2}$.

 $\frac{1}{3} \times x^{2} + 35 \times x^{2} = \frac{1}{10} \times x^{2}$.

(a)
$$(\frac{2x-1}{3}) - (\frac{6x-2}{5}) = \frac{1}{3}$$

 $(\frac{2x-1}{5}) - (\frac{6x-2}{3}) = \frac{1}{3}$
 $(\frac{2x-1}{5}) - (\frac{6x-2}{3}) = \frac{1}{3}$
 $(\frac{2x-1}{5}) - (\frac{6x-2}{3}) = \frac{1}{3}$
 $(\frac{2x-1}{5}) - (\frac{6x-2}{3}) = \frac{15}{3}$
 $(\frac{2x-1}{3}) - (\frac{6x-2}{3}) - \frac{1}{5} = \frac{1}{3}$
 $(\frac{-1-1}{3}) - (\frac{-3-1}{5}) = \frac{1}{3}$
 $(\frac{-1-1}{3}) - (\frac{-5}{5}) = \frac{1}{3}$
 $(\frac{-2}{3}) - (\frac{-5}{5}) = \frac{1}{3}$
 $(\frac{-2}{3}) + (\frac{-1}{3}) = \frac{1}{3}$

13
$$|y-4|$$
 -3 $|y-9|$ -5 $|y+4|$ =0.
13 $y-13x4$ -3 $y+(3x9)$ -5 $y-5x4$ =0.
13 $y-52-3y+27-5y-20=0$.
5 $y-2g-20=0$.
5 $y=4g$
 $y=\frac{4g}{5}$
 $y=\frac{4g}{5}$
S-obstitute $y':2$ g_{1} .
13 $(g_{1}-4)$ -3 $(g_{1}-9)$ -5 $(g_{1}+4)=0$.
13 $(g_{1}-4)$ -3 $(g_{1}-9)$ -5 $(g_{1}+4)=0$.
65 - 65 = 0.
65 - 65 = 0.

(1)
$$\frac{1}{3}(n-5) - \frac{1}{4}(n-2) = \frac{9}{2}$$
 $\frac{2}{3}(n-5) \times \frac{4}{4} - \frac{1}{4}(n-2) \times \frac{9}{3} = \frac{9}{2}$
 $\frac{8}{12}(n-5) \times \frac{4}{4} - \frac{1}{4}(n-2) \times \frac{9}{3} = \frac{9}{2}$
 $\frac{8}{12}(n-5) - \frac{3}{12}(n-2) = \frac{9}{2}$
 $\frac{8}{12}(n-5) - \frac{3}{12}(n-2) = \frac{9}{2}$
 $\frac{8}{12}(n-5) - \frac{3}{12}(n-2) = \frac{9}{2}$
 $\frac{8}{12}(n-2) = \frac{9}{2}$
 $\frac{1}{12}(n-2) = \frac{9}{2}$

Linear Equation In One Variable Ex 9.2

$$\frac{8\pi \cdot 9 \cdot 2}{3} = 3\pi - 10$$

$$\left(\frac{2\pi + 5}{3}\right) \times 3 = (3\pi - 10)3 \quad \left(\frac{2\pi + 5}{3}\right) \times 3 = (3\pi - 10)3 \quad \left(\frac{2\pi + 5}{3}\right) \times 3 = (3\pi - 10)3$$

$$\frac{2\pi + 5}{3} = 3\pi \times 3 = 10\times 3$$

$$\frac{2\pi + 5}{3} = 9\pi - 30$$

$$\frac{7\pi = 35}{7\pi = 7\times 5}$$

$$\frac{7\pi = 7\times 5}{7\pi = 7\times 5}$$

$$\frac{7\pi = 7\times 5}{7\pi = 7\times 5}$$

$$\frac{7\pi = 7\times 5}{7\pi = 7\times 5}$$

$$\frac{7\pi = 5}{3}$$

$$\frac{10 + 5}{3} = 3(5) - 10$$

$$\frac{15}{3} = 15 - 10$$

$$\frac{5\times 3}{3} = 5$$
hence verified.

(3)
$$\frac{a-8}{3} = \frac{a-3}{2}$$

$$\frac{(a-8)}{6} \times \frac{(2)}{6} = \frac{a(a-3)}{6}$$

$$\frac{2(a-8)}{6} = \frac{a(a-3)}{6}$$

$$\frac{2(a-8)}{6} \times \frac{a(a-3)}{6}$$

$$\frac{2(a-8)}{6} \times \frac{a(a-3)}{6}$$

$$\frac{2a-16}{6} = \frac{3a-5}{2}$$

$$\frac{a-16}{6} = \frac{3a-5}{2}$$

$$\frac{a-16}{3} = \frac{3a-1a-9}{2}$$

$$\frac{a-16}{3} = \frac{-10}{2}$$

$$\frac{-16}{3} = \frac{-10}{2}$$

$$\frac{-16}{3} = \frac{-10}{2}$$

$$\frac{-5xx}{3} = \frac{-5xx}{2}$$

$$\frac{-5xx}{3} = \frac{-5xx}{2}$$

$$\frac{-5xx}{3} = \frac{-6y-5}{3}$$

$$\frac{1y+1}{5} = \frac{6y-5}{11}$$

$$\frac{1y+1}{5} = \frac{6y-5}{11}$$

$$\frac{1y+1}{5} = \frac{6y-5}{11}$$

$$\frac{11(79+2)}{55} = \frac{5(6y-5)}{55}$$

$$\frac{11(7y+2)}{55} \times 58 = \frac{5(6y-5)}{55} \times 55$$

$$\frac{11(7y+2)}{55} \times 58 = \frac{5(6y-5)}{55} \times 55$$

$$\frac{11(7y+2)}{55} = \frac{5(6y-5)}{55} \times 55$$

$$\frac{11(7y+2)}{55} = \frac{5(6y-5)}{55} \times 55$$

$$\frac{11(7y+2)}{77y+21} = \frac{30y-21}{7} - 25$$

$$\frac{11(7y+2)}{7} = \frac{1}{7} = \frac{1}{7} = \frac{1}{7} = \frac{1}{7} = \frac{1}{7} = \frac{1}{7} = \frac{1$$

4)
$$M - 2x + 2 - \frac{16}{3}m + 5 = 3 - \frac{7}{4}m$$
 $-7x + 7 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4}x$
 $-x + 7 - 3 - \frac{16}{3}x = 3 - \frac{7}{4$

$$\frac{24}{17} - \frac{48}{17} + 2 - \frac{16}{3} \times \frac{8x3}{7} + 5 = 3 - \frac{7}{2} \cdot \frac{18x3}{17}$$

$$-\frac{24}{17} + 2 - \frac{128}{7} = 3 - \frac{84}{17}$$

$$-3 + \left(-\frac{24}{17}\right) + 7 - \frac{128}{7} = \frac{3}{7} - \frac{84}{17}$$

$$4 - \frac{128}{7} = \frac{-69}{17}$$

$$4 - \frac{128}{7} = \frac{-69}{17}$$

$$\frac{4x7}{7} - \frac{128}{17} = \frac{-69}{17}$$

$$\frac{4x7}{7} - \frac{128}{17} = \frac{-69}{17}$$

$$\frac{6}{17} = \frac{6}{17}$$

$$\frac{1}{2}x + 7x - 6 = 7x + \frac{1}{4}$$

$$\frac{1}{2}x + 7x - 6 = 7x - 7x + \frac{1}{4}$$

$$\frac{1}{2}x + 7x - 6 = \frac{1}{4}$$

$$\frac{1}{2}x + 7\pi - 6 = 7x + \frac{1}{y}$$

$$\frac{1}{2}\pi + \frac{1}{y}\pi - \frac{1}{y}\pi - 6 = \frac{7}{y}\pi - \frac{1}{y}\pi + \frac{1}{y}$$

$$\frac{1}{2}\pi + \frac{1}{y}\pi - \frac{1}{y}\pi - 6 = \frac{7}{y}\pi - \frac{1}{y}\pi + \frac{1}{y}\pi$$

$$\frac{1}{2}\pi - 6 = \frac{1}\pi$$

$$\frac{1}{2}\pi - 6 = \frac{1}{y}\pi$$

$$\frac{1}{2}\pi - 6 = \frac{1}{y}\pi$$

$$\frac{1}$$

$$\frac{\pi}{2} = \frac{1+2y}{4}$$

$$\frac{\pi}{2} = \frac{2\tau}{4}$$

$$\frac{\pi}{2} \times 2 = \frac{2\tau}{4} \times 2 \qquad \left[\text{Multiplying 8Q w.th 2} \right]$$

$$\pi = \frac{2\tau}{2x_2} \times 2$$

$$\pi = \frac{2\tau}{2}$$
whiltite π in Eq.

Substitute or in Eq.

$$\frac{1}{2} \left(\frac{3}{2} \right) + 7 \left(\frac{3}{2} \right) - 6 = 7 \left(\frac{3}{2} \right) + \frac{1}{9}$$

$$\frac{3}{9} - 7 \left(\frac{3}{2} \right) - 6 = \frac{1}{9} + 7 \left(\frac{3}{9} \right) - 7 \left(\frac{3}{9} \right)$$

$$\frac{2}{9} - 6 = \frac{1}{9}$$

$$\frac{3}{9} - \frac{6}{9} + \frac{1}{9}$$

$$\frac{3}{9} - \frac{1}{9} + \frac{1}{9} + \frac{1}{9}$$

$$\frac{3}{9} - \frac{1}{9} + \frac{1}{9} + \frac{1}{9}$$

$$\frac{3}{9} - \frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9}$$

$$\frac{3}{9} - \frac{1}{9} + \frac{1}{$$

6
$$\frac{3}{4}$$
 $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{3}{4}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{3}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{3}{10}$ $\frac{1}{10}$ $\frac{1}{10}$

$$\frac{123}{40} + \frac{6\times40}{40} = \frac{7}{8} + \frac{146-164}{10}$$

multiplying Eg, with us.

$$n - \frac{w}{3}x = \frac{w\pi}{3} - \frac{10\pi}{3} + 10$$

$$\frac{3\pi}{3} - \frac{20\pi}{3} = 10$$

$$\frac{3\pi - 20\pi}{3} = 10$$

$$\frac{17\pi}{3} = 10$$

multiply,
$$s_0$$
, with $\left[\frac{3}{17}\right]$

Substitute x in s_1 .

$$\frac{7}{17}\left(\frac{-30}{17}\right) - \frac{5}{2}\left(\frac{-30}{17}\right) = \frac{30}{3}\left(\frac{-30}{17}\right) + 10$$

$$\frac{7}{17}\left(\frac{-15x}{17}\right) + \frac{7}{2}\left(\frac{15x}{17}\right) = \frac{-30x}{3}\frac{x}{17} + 10$$

$$\frac{7}{17} + \frac{7}{17} = \frac{-300}{17} + 10$$

Adding $+\frac{100}{17}$ on $\frac{1}{17}$

$$\frac{-30}{17} + \frac{100}{17} = \frac{10}{17}$$

$$\frac{-30}{17} + \frac{100}{17} = \frac{10}{17}$$

$$\frac{-30}{17} + \frac{100}{17} = \frac{10}{17}$$

Hence verified.

(a)
$$\frac{6\pi 4+1}{2} + 1 = \frac{7\pi - 3}{3}$$

multiply $\frac{6\pi}{2} + \frac{1}{16} = \frac{7\pi - 3}{3} \frac{160}{3}$

(a) $\frac{6\pi + 1}{2} \frac{16}{3} + \frac{160}{3} = \frac{7\pi - 3}{3} \frac{160}{3}$

(b) $\frac{6\pi + 1}{2} \frac{160}{3} + \frac{160}{3} = \frac{7\pi - 3}{3} \frac{160}{3}$

(a) $\frac{6\pi + 1}{2} \frac{16\pi + 1}{3} + \frac{16\pi - 1}{3} = \frac{7\pi - 3}{3} \frac{160}{3}$

(b) $\frac{6\pi + 1}{2} \frac{1}{3} + \frac{1}{3} = \frac{7\pi - 3}{3} \frac{160}{3}$

(c) $\frac{6\pi + 1}{2} \frac{1}{3} + \frac{1}{3} = \frac{7\pi - 3}{3} \frac{160}{3}$

(d) $\frac{6\pi + 1}{2} \frac{1}{3} + \frac{1}{3} = \frac{7\pi - 3}{3} \frac{160}{3}$

(e) $\frac{6\pi + 1}{2} \frac{1}{3} + \frac{1}{3} = \frac{7\pi - 3}{3} \frac{160}{3}$

(f) $\frac{6\pi + 1}{2} \frac{1}{3} + \frac{1}{3} = \frac{7\pi - 3}{3} \frac{160}{3}$

(f) $\frac{6\pi + 1}{2} \frac{1}{3} + \frac{1}{3} = \frac{7\pi - 3}{3} \frac{160}{3}$

(f) $\frac{6\pi + 1}{2} \frac{1}{3} + \frac{1}{3} = \frac{7\pi - 3}{3} \frac{160}{3}$

(f) $\frac{6\pi + 1}{2} \frac{1}{3} + \frac{1}{3} = \frac{7\pi - 3}{3} \frac{160}{3}$

(f) $\frac{6\pi + 1}{2} \frac{1}{3} + \frac{1}{3} = \frac{7\pi - 3}{3} \frac{160}{3}$

(f) $\frac{6\pi + 1}{2} \frac{1}{3} + \frac{1}{3} = \frac{7\pi - 3}{3} \frac{160}{3}$

(f) $\frac{6\pi + 1}{3} \frac{1}{3} + \frac{1}{3} = \frac{7\pi - 3}{3} \frac{160}{3}$

(f) $\frac{6\pi + 1}{3} \frac{1}{3} + \frac{1}{3} = \frac{7\pi - 3}{3} \frac{160}{3}$

(f) $\frac{6\pi + 1}{3} \frac{1}{3} + \frac{1}{3} = \frac{7\pi - 3}{3} \frac{160}{3}$

(f) $\frac{6\pi + 1}{3} \frac{1}{3} + \frac{1}{3} = \frac{7\pi - 3}{3} \frac{160}{3}$

(f) $\frac{6\pi + 1}{3} \frac{1}{3} + \frac{1}{3} = \frac{7\pi - 3}{3} \frac{160}{3}$

(f) $\frac{6\pi + 1}{3} \frac{1}{3} + \frac{1}{3} = \frac{7\pi - 3}{3} \frac{160}{3}$

(f) $\frac{6\pi + 1}{3} \frac{1}{3} + \frac{1}{3} = \frac{7\pi - 3}{3} \frac{1}{3} = \frac{7\pi - 3}{3} \frac{160}{3}$

(f) $\frac{6\pi + 1}{3} \frac{1}{3} + \frac{1}{3} = \frac{7\pi - 3}{3} = \frac{7\pi - 3} = \frac{7\pi - 3}{3} = \frac{7\pi - 3}{3} = \frac{7\pi - 3}{3} = \frac{7\pi - 3}{$

-135 +9 = -105 -6.

$$\frac{3a-2}{3} + \frac{2a+3}{2} = a + \frac{7}{4}$$

$$\frac{3a-2}{3} + \frac{2a+3}{2} = a + \frac{7}{4}$$

$$\frac{3a-2}{3} + \frac{2a+3}{2} = a + \frac{7}{4}$$

$$\frac{3a-2}{3} + \frac{2a+3}{2} = 6a + 7$$

$$\frac{3a-2}{3} + \frac{3a-2}{2} = 6a + 7$$

$$\frac{3a-2}{3} + \frac{3a-2}{2} = 6a + 7$$

$$\frac{3a-2}{3} + \frac{3a-2}{3} = 6a +$$

10)
$$3l - \frac{(n-1)}{3} = 1 = \frac{(n-2)}{3}$$

runtiplying ξ_{0} , with l
 $2x_{0} - \frac{(n-1)}{2}(3x_{2}) = 6 - \frac{(n-2)}{2}(3x_{2})$
 $6x_{0} - 3x_{0} + 3 = 6 - 2x_{0} + y$
 $3x_{0} + 3 = -2x_{0} + 10$
 $5x_{0} = 7$

Rubilitate x_{0} in ξ_{0} .

 $\frac{1}{3} - \frac{11}{3} - \frac{1}{3} = 1 - \frac{1}{3}$

devid multiply. ξ_{0} , with $3v$.

 $\frac{7}{5}x_{0}x_{0} - \frac{7}{3}x_{0} + \frac{1}{3}x_{0} = 30 - \frac{7}{3}x_{0} + \frac{1}{3}x_{0}$
 $4x_{0} - 21 + 15 = 30 - 14 + 10$
 $31 = 31$.

Hence very fixed

(i)
$$\frac{34}{4} - \frac{(n-1)}{2} = \frac{(n-2)}{3}$$

multiplying $\frac{84}{4}$, with 12
 $\frac{34}{4} \times \frac{4}{3} = -\frac{(n-1)}{2} \times 6 \times 2 = (\frac{n-2}{3})(4 \times 3)$
 $9n - 6n + 6 = 4n + 8$.

 $|\alpha = +14|$

(12)
$$\frac{5\pi}{3} - \frac{(n-1)}{y} = \frac{(n-3)}{5}$$

multiply eq, with 60
 $\frac{5\pi}{3} \times 3 \times 700 - \frac{(n-1)}{5} \times 15 \times 14 = \frac{(n-3)}{5} \frac{(5 \times 12)}{5}$
 $\frac{100\pi}{3} - \frac{15(n-1)}{5} = \frac{12\pi}{3} - \frac{36}{5}$.
 $\frac{100\pi}{3} - \frac{15\pi}{3} + \frac{15\pi}{3} = \frac{12\pi}{3} - \frac{36}{3}$.

$$73x = -51$$

$$x = -51$$

$$\frac{5}{3}\left(\frac{-51}{73}\right) - \left(\frac{-51}{73}\right)^{-3} = \frac{\left(\frac{-51}{73}\right)^{-3}}{5}$$

$$\frac{-255}{219} + \frac{124}{292} = \frac{7270}{365}$$

 $-\frac{54}{73} = -\frac{54}{73}$

Henre verfred.

13)
$$\frac{3\pi H}{16}$$
 # $\frac{n_M-3}{7} = \frac{m43}{8} + \frac{3\pi-1}{14}$
nulliplying the equation with 112.

$$\frac{3\pi 1}{16} \times 112 + \frac{3m-3}{7} \pi 112 = \frac{m+3}{8} \times 11n + \frac{3\pi-1}{14} \times 112$$

$$\Rightarrow 7(3x+1) + 16(2x-3) = 14(4+3) + 8(3x-1)$$

$$\Rightarrow 21x+7 + 32x - 48 = 14x + 42 + 24x - 8$$

$$\Rightarrow \frac{-10+32x}{3} = \frac{38x+3}{3}$$

$$\Rightarrow \frac{-28}{3}$$

$$\Rightarrow$$

Hence verified.

(19)
$$\left(\frac{1-2n}{7}\right) - \left(\frac{2n-3n}{8}\right) = \frac{2}{5} + \frac{n}{4}$$

multiply with 76 on $6/1$,

 $\left(\frac{1-2n}{7}\right) + 76$ on $6/1$,

 $\left(\frac{1-$

substitute in Equation.

$$\left[1 - \frac{2(-10)}{7}\right] - \left[2 - \frac{3(-10)}{8}\right] = \frac{3}{2} + \frac{(-10)}{7}$$

$$3 - 4 = \frac{3}{2} - \frac{5}{2}$$

$$7 = -1$$

have verified.

(1)
$$9\frac{x+7}{2} - \left(x - \frac{x-2}{7}\right) = 36.$$

divide Eg. with 14 on hothside.

rafy solution

(B)
$$0.18(5x-4) = 0.5x+0.8$$
 $0.18(5x-4) = 0.5x+0.8$
 $100x0.18(5x-4) = 100x0.5x+100.x0.8$
 $18(5x-4) = 50x+80$
 $18(5x-4) = 50x+80$
 $18(5x-4) = 15x$
 $18(5x-4) = 15x$
 $18(5x-4) = 0.5(3.8)+0.8$
 $18(5(3.8)-4) = 0.5(3.8)+0.8$
 $18(5(3.8)-4) = 0.5x+0.0$
 $18(5(3.8)-4) = 50(3.8)+80$
 $18(5(3.8)-4) = 50(3.8)+80$
 $18(5(3.8)-4) = 50(3.8)+80$

litence verified

rultiplying the Equation with 12 n on holhside.

$$\frac{18}{9} + \frac{1}{3} + \frac{13}{108} \times = \frac{8\pi + 19}{18}$$

11 = 1.

11 = 1.

11 = 1.

11 = 1.

12 = 1.

14 +
$$\frac{1}{9}$$
 + $\frac{13}{108}$ x = $\frac{8\pi + 19}{18}$.

18 multiply the equation in this is $\frac{3}{18}$ the equation in this is $\frac{3}{18}$ the $\frac{3}{18}$ the

$$48\pi + 36 + 13\pi = 6(8\pi + 19)$$

$$61\pi + 36 = 48\pi + 188 119$$

$$13\pi = 114 - 36$$

$$= 78$$

$$\pi = 6$$

Substitute value of
$$x : x \in \frac{8}{18}$$

$$\frac{4}{9}(6) + \frac{1}{3} + \frac{13}{108}(6) = \frac{8}{18}$$

$$\frac{8}{3} + \frac{1}{3} + \frac{13}{18} = \frac{67}{18}$$

$$\frac{6 \times 9}{6 \times 3} + \frac{13}{18} = \frac{67}{18}$$

$$\frac{57}{18} = \frac{67}{18}$$

Henre venified

(15)
$$\left(\frac{41-2\pi}{15}\right) = \frac{(4\pi+10)}{5} = \frac{15-14\pi}{9}$$

multiply the eq. with 45

 $\left(\frac{45-2\pi}{15}\right)(18\pi3) = \left(\frac{4\pi+10}{5}\right)(8\pi9) = \left(\frac{15-14\pi}{9}\right)(8\pi3) = 135-6\pi = 36\pi4-90 = 75-70\pi$

$$704 - 424 = 75 - 4$$

$$28x = 30$$

$$28 = \frac{1}{14}$$

Substituting int in Eq.

multiply the equals with 45.

$$135 - \frac{45}{7} - \frac{270}{7} - 90 = 0.$$

$$4\Gamma - \frac{31\Gamma}{7} = 0$$
,
 $4\Gamma = \frac{31\Gamma}{7}$

Hence vented

$$(90) 5 \left(\frac{7475}{3}\right) - \frac{23}{3} = 13 - \left(\frac{4x-2}{3}\right)$$

multiply the equation with 3

$$5\left(\frac{7x+5}{3}\right) \times 3 - \frac{23}{3} \times 3 = 13x3 - \left(\frac{4x-2}{3}\right) \cdot 3$$

substitute -x' in Eq.

$$5(\frac{1(1)+5)}{3} - \frac{23}{3} = 13 \div \left(\frac{4(1)-1}{3}\right)$$

$$5\left(\frac{1}{3}\right) - \frac{2}{3} = 13 - \left(\frac{2}{3}\right)$$

$$\frac{20}{3} = 13 - \frac{23}{3}$$

Hence verified

1)
$$\frac{77-1}{4} - \frac{1}{3}(2x - \frac{1-x}{2}) = \frac{10}{3}$$

multiply the eq. with $12 = \frac{10}{3}$ thus 33
 $\frac{79-1}{4}x4x3 - \frac{1}{3}(2x - \frac{1-x}{2})x4x3 = \frac{10}{3}x4x3$
 $\frac{79-1}{4}x4x3 - \frac{1}{3}(2x - \frac{1-x}{2})x4x3 = \frac{10}{3}x4x3$
 $\frac{7(7x-1)}{4} - \frac{1}{2}(2x - \frac{1-x}{2}) = \frac{90}{3}$
 $\frac{2(7x-1)}{3(7x-1)} - \frac{1}{4}(2x - \frac{1-x}{2}) = \frac{10}{3}x\frac{41}{10}$
 $\frac{21}{3}x - \frac{1}{3}x + \frac{1}{2}x - \frac{1-x}{2} = \frac{10}{3}x\frac{41}{10}$

Substitute $x^2 : x = \frac{1}{3}(2x - \frac{1-x}{2}) = \frac{10}{3}x\frac{41}{10}$

$$\left[7\left(\frac{4!}{1!}\right)^{-1}\right] - \frac{1}{3}\left[2\pi - \frac{1-\pi}{2}\right] = \frac{10}{3}x\frac{4!}{15}$$
multiplying Eq. with 12 on both side.

$$4x3 \left[\frac{2(\frac{11}{11})}{2} - \frac{1}{3} \left[2x - \frac{1}{3} \right] 4x3 \right] = \frac{10}{3} \times \frac{11}{11} \times 4x3$$

$$= \left[\frac{287}{11} - 1 \right] - 4 \left[2(\frac{11}{11}) - (1 - \frac{11}{11}) \right] = \frac{120}{3}$$

$$\frac{861}{11} - 3 \times \frac{11}{11} - \frac{318}{11} + \frac{14 - \frac{164}{11}}{2} = \frac{164}{11} = \frac{100}{3}$$

$$\frac{861}{11} - \frac{33}{11} - \frac{328}{11} + \frac{14 - \frac{164}{11}}{2} = \frac{164}{11} = \frac{400}{3}$$

$$\frac{861}{11} - \frac{33}{11} - \frac{328}{11} + \frac{14}{11} - \frac{164}{11} = \frac{164}{11} = \frac{400}{3}$$

$$\frac{11}{11} - \frac{31}{11} - \frac{11}{11} = \frac{11}{11} = \frac{11}{11} = \frac{11}{11} = \frac{11}{11} = \frac{11}{11}$$

$$\frac{1440}{11} = 40$$

$$\frac{11}{11} - \frac{11}{11} = \frac{11}{1$$

$$\frac{x(x.0.4)}{5x7} - \frac{y(x-7.7)}{10x6} = \frac{x+6.1}{10}$$

$$\frac{x-0.4}{7} - \frac{(x-2.71)}{7} = \frac{x+6.1}{10}$$

$$\frac{x-0.4+2.71}{7} = \frac{x+6.1}{10}$$

$$\frac{2.31}{7} = \frac{x+6.1}{10}$$

$$\frac{31}{7} = \frac{x+6.1}{10$$

3 = -2.8

Substitute 'x' in eq.

$$0.1-(-2.8-0.4)$$
 $-0.6(-2.8-2.71) = -2.8$
 0.31
 $0.5(-3.2)$ $-0.6(-5.51)$ $= 6.1-2.8$
 0.42
 0.35
 0.42
 0.35
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.42
 0.4

$$-\frac{320}{7} + \frac{551}{7} = 33$$

$$= \frac{551 - 320}{7} = 33$$

$$= \frac{331}{7} = 33$$

$$= \frac{7 \times 33}{7} = 33$$

$$\Rightarrow 130x + 195x - 325 = 1300 + 260 + 130x - 260$$

$$\Rightarrow 325x - 325 = 1000 + 130x$$

$$37571 - 325 = 130413070$$

$$37571 - 325 = 26674$$

$$32574 - 325 - 26074 + 375 = 26074 + 375$$

$$32574 - 325 - 26074 + 375 = 26074 + 375$$

$$3677 = 325$$

$$3677 = 325$$

$$3677 = 325$$

$$3677 = 325$$

$$3677 = 325$$

$$3677 = 325$$

$$3677 = 325$$

$$36777 = 325$$

$$36777 = 325$$

$$367777 = 325$$

$$367777 = 325$$

$$37770 = 6.5777 \times 10 + 1370$$

$$41377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 26$$

$$1377 - 27$$

$$1377 - 27$$

$$1377 - 27$$

$$1377 - 27$$

$$1377 - 27$$

$$1377 - 27$$

$$1377 - 27$$

$$1377 - 27$$

$$1377 - 27$$

$$1377 - 27$$

$$1377 - 27$$

$$1377 - 27$$

$$1377$$

Hence verified,

Hence verified,

$$= \left[\frac{2(\frac{6}{11}) + 3}{2(\frac{6}{11}) + 3} + \frac{6(\frac{1}{11} + 5)}{2(\frac{6}{11}) + 3} + \frac{6(\frac{1}{11}) + 3}{2(\frac{6}{11}) + 3} - \frac{6(\frac{1}{11}) + 3}{2(\frac{6}{11}) + 3} \right]$$

$$= \frac{16(\frac{6}{11}) + 8}{2(\frac{18}{11}) + 8} + \frac{6(\frac{1}{11} - 2)}{2(\frac{6}{11} - 2)} = \frac{10(\frac{6}{11})^2 + 92}{2(\frac{6}{11} - 2)}$$

$$= \frac{18}{11}(\frac{18}{11} + 8) + 8(\frac{18}{11} + 8) + \frac{6(\frac{1}{11} - 2)}{2(\frac{6}{11} - 2)} = \frac{360}{121} + 92$$

$$= \frac{360}{121} + 92$$

Linear Equation In One Variable Ex 9.3

Frencise 9:3:

(1)
$$\frac{2^{3}-3}{3^{3}+2} = \frac{2}{3}$$

(201) $\frac{2}{3}$

(201

(a)
$$\frac{2-4}{y+7} = \frac{8}{5}$$

(b) $\frac{2-4}{y+7} = \frac{8}{5}$

(c) $\frac{1}{2} = \frac{3}{2} = \frac{$

$$5\left(\frac{2}{8} + \frac{11}{8}\right) = 3\left(7 - \frac{11}{8}\right)$$

$$5(1) + \frac{5(1)}{8} = 3(7) - \frac{11(3)}{8}$$

$$10 + \frac{55}{8} = 21 - \frac{33}{8}$$

$$adding \frac{73}{8} - 10 = 0 \text{ on both sides}$$

$$18 + \frac{55}{8} + \frac{33}{8} - 10 = 21 - \frac{35}{8} + \frac{35}{8} - 10$$

$$\frac{88}{8} = 21 - 10$$

$$11 = 11 \quad \text{Hence venfed}$$

$$\bigcirc \frac{3n}{2n-1} = \frac{1}{2}$$

couss mustiplying

5x-7 =6x adding - 5% on both 1005

substitute a in eq.

$$5(-7)$$
 -7 $= -7$

aus, multiplyins

Hence verfied.

cross multiplying

$$-23 = .5 \text{ n}$$
 $n = -\frac{23}{1}$

$$u = -\frac{1}{53}$$

Substitute on on Eq.

$$\frac{3\left(-\frac{23}{5}\right)+5}{2\left(-\frac{23}{5}\right)+7} = \frac{4}{7}$$
(40) multiplyon
$$\left[3\left(-\frac{23}{5}\right)+7\right] = 4\left[2\left(-\frac{23}{5}\right)+7\right]$$

$$-\frac{69}{5}+5 = 8\left(-\frac{23}{5}\right)+28.$$
adding $\frac{187}{5}-5$ on both side
$$\frac{189}{5}-4-\frac{69}{5}+8 = -\frac{184}{5}+28+\frac{189}{5}-5$$
Hence varified.

E
$$\frac{3y+5}{y+4}$$
 = 1
cross multiply.
 $\frac{2y+5}{y+4}$ = $\frac{y+4}{y+5}$ on both side.
 $\frac{3y+5}{y+5}$ = $\frac{y+4}{y+5}$ - $\frac{y-5}{y}$ = $\frac{y+4}{y+5}$ = $\frac{y+4}{y$

6
$$\frac{2n+1}{3n-2} = \frac{5}{9}$$

(101) multiplying,

 $9(2n+1) = 5(3n-2)$
 $9(2n) + 9(1) = 5(3n) - 5(2)$
 $18n + 9 = 15n - 10$
 $addiny = 15n - 9$ on hothside,

 $18n + 9 = 15n - 9 = 15n - 10 - 15n - 9$
 $3n = -19$
 $n = -19/3$

Substitute as in Eg.

$$\frac{2\left(\frac{-19}{3}\right)+1}{3\left(\frac{-19}{3}\right)-2} = \frac{5}{9} \quad \left[: cws, multiplying\right]$$

$$9\left[2\left(\frac{-19}{3}\right)+1\right] = 5\left[3\left(\frac{-19}{3}\right)-2\right]$$

$$9\left[2\left(\frac{-19}{3}\right)+1\right] = 5\left(-19-2\right)$$

$$-19(6) +9 = 5\left(-24\right)$$

$$-19(6) +9 = 5\left(-24\right)$$
henceven field.

(3)
$$\frac{1-9y}{19-3y} = \frac{5}{8}$$

(40) multiplying $8(1-9y) = 5(19-3y)$
 $8(1) - \frac{8}{9}(9y) = 5(19) - 5(3y)$
 $8 - 72y = 95 - 15y$
adding $15y - 8$ on both sides $15y - 8 + 8 - 72y = 95 - 15y + 15y - 8$
 $-57y = 87$
 $y = -\frac{87}{577}$
 $y = -\frac{3x}{3x19}$

substitute your Eq.

$$\frac{1-9(-\frac{29}{19})}{19-3(-\frac{29}{19})}=\frac{5}{8}$$

cons multiplying $8\left(1+9\left(\frac{19}{19}\right)\right) = 5\left(19+3\left(\frac{29}{19}\right)\right)$ $8+8\frac{x_9\times 29}{19} = 5\times 19+5\times \frac{19}{19}$ $8dding -\frac{1}{19}\times 3\times 29 = 8 \text{ on both sides}$

$$-8 - \frac{15 \times 19}{19} + 8 + \frac{8 \times 9 \times 19}{19} = 5 \times 19 + \frac{15 \times 29}{19} - 8$$

$$\frac{72(39) - 24(15)}{19} = 95 + - 8.$$

$$\frac{29(57)}{11} = 87$$

$$87 = 87.$$
here verified

(8)
$$\frac{2x}{3x+1} = -3$$

(1013 multiplying

 $2x(1) = -3(3x+1)$
 $2x = -3(3x) - 3(1)$
 $2x = -9x - 3$
 $2x = -9x - 3$
 $2x = -9x - 3 + 9x$
 $2x = -9x - 3 + 9x$

$$\frac{11n = -3}{[x = \frac{-3}{11}]}$$
and Substitute on in Eq.

$$\frac{2(-\frac{3}{11})}{3(-\frac{3}{11})} = -3$$

$$\frac{3(-\frac{3}{11})}{-\frac{6}{11}} = -3(-\frac{9}{11} + 1)$$

$$\frac{6}{11} = +\frac{17}{11} - \frac{3}{11} \times \frac{11}{11}$$

$$\frac{1}{11} = -\frac{6}{11} = -\frac{6}{11} + \frac{11}{11}$$
Hence verifica

$$\frac{y-(7-8y)}{9y-(3+4y)} = \frac{2}{3}$$

$$\frac{y-7-(-8y)}{9y-3-4y} = \frac{2}{3}$$

$$\frac{y-1+8y}{5y-3} = \frac{2}{3}$$

$$\frac{9y-7}{5y-3} = \frac{2}{3}$$

$$\frac{9y-7}{5y-3} = \frac{2}{3}$$

$$\frac{3(9y-7)}{5y-3} = 2\frac{15y-3}{3}$$

$$\frac{3(9y)}{3(7)} = 2(5y-3)$$

$$\frac{3(9y)}{3(7)} = 2(7y-3)$$

$$\frac{3(9y)}{3(7)} = 2(7y-3)$$

$$\frac{3(17)}{3(7)} = 2(7x-3)$$

$$\frac{3(17)}{3(7)} = 2(7x-3)$$

$$\frac{3(17)}{3(7)} = 2(7x-3)$$

$$\frac{3(17)}{3(7)} = 2(7x-3)$$

$$\frac{27 \times 17}{17} - 21 = \frac{150}{17} - 6$$

$$\frac{200 \times 17}{17} - \frac{150}{17} + 6 = 0 \text{ both sides}$$

$$\frac{27 \times 17}{17} - \frac{150}{17} + 6 - 21 = -\frac{1}{4} + \frac{150}{17} - \frac{170}{17} \neq 6$$

$$\frac{15(17)}{17} + 6 - 21 = 0$$

$$= 11 - 15 = 0$$

$$= 0 \text{ bence varified}$$

$$\frac{6}{2\pi - (3 - 4\pi)} = \frac{2}{3}$$

$$\frac{2\pi - 3 + 4\pi}{3}$$

$$\frac{6}{3} = 2(6\pi) - 2(3)$$

$$18 = 12\pi - 6$$

adding +6

18+6 = 10x +8 -6

$$\frac{6}{2(2)-36(3-4(3))} = \frac{2}{3}$$

$$\frac{6}{4-3+8} = \frac{2}{3}$$

$$\frac{6}{9} = \frac{2}{3} \Rightarrow \frac{2\times 3}{3\times 3} = \frac{2}{3}$$

$$\frac{1}{3} = \frac{2}{3} \Rightarrow \frac{2\times 3}{3\times 3} = \frac{1}{3}$$

$$\frac{1}{3} = \frac{2}{3} \Rightarrow \frac{2\times 3}{3\times 3} = \frac{1}{3}$$

$$\frac{1}{3} = \frac{2}{3} \Rightarrow \frac{2\times 3}{3\times 3} = \frac{1}{3}$$

$$\frac{1}{3} = \frac{2}{3} \Rightarrow \frac{2\times 3}{3\times 3} = \frac{1}{3}$$

$$\frac{2}{3\times 3} = \frac{2}{3} \Rightarrow \frac{2\times 3}{3\times 3} = \frac{1}{3}$$

$$\frac{2}{3\times 3} = \frac{2}{3} \Rightarrow \frac{2\times 3}{3\times 3} = \frac{1}{3}$$

$$\frac{2}{3\times 3} = \frac{2}{3} \Rightarrow \frac{2\times 3}{3\times 3} = \frac{1}{3}$$

$$\frac{2}{3\times 3} = \frac{2}{3} \Rightarrow \frac{2\times 3}{3\times 3} = \frac{1}{3}$$

$$\frac{2}{3\times 3} = \frac{2}{3} \Rightarrow \frac{2\times 3}{3\times 3} = \frac{1}{3}$$

$$8 = \frac{2}{3\times 3} = \frac{1}{12} \Rightarrow \frac{2}{3\times 3} = \frac{1}{12} \Rightarrow \frac{2}{3\times 3} = \frac{1}{12} \Rightarrow \frac{2}{3\times 3} = \frac{1}{3}$$

$$8 = \frac{2}{3\times 3} = \frac{1}{3} \Rightarrow \frac{2\times 3}{3\times 3} = \frac{1}{3}$$

$$8 = \frac{2}{3\times 3} = \frac{1}{3} \Rightarrow \frac{2\times 3}{3\times 3} = \frac{1}{3}$$

$$8 = \frac{2}{3\times 3} = \frac{1}{3} \Rightarrow \frac{2\times 3}{3\times 3} = \frac{1}{3}$$

$$8 = \frac{2}{3\times 3} = \frac{1}{12} \Rightarrow \frac{2\times 3}{3\times 3} = \frac{1}{3}$$

$$8 = \frac{2}{3\times 3} = \frac{1}{12} \Rightarrow \frac{2\times 3}{3\times 3} = \frac{1}{3}$$

$$8 = \frac{2}{3\times 3} = \frac{1}{12} \Rightarrow \frac{2\times 3}{3\times 3} = \frac{1}{3}$$

$$8 = \frac{2}{3\times 3} = \frac{1}{12} \Rightarrow \frac{2\times 3}{3\times 3} = \frac{1}{3}$$

$$8 = \frac{2}{3\times 3} = \frac{1}{12} \Rightarrow \frac{2\times 3}{3\times 3} = \frac{1}{3}$$

$$8 = \frac{2}{3\times 3} = \frac{2}{3} \Rightarrow \frac{2\times 3}{3\times 3} = \frac{1}{3}$$

$$8 = \frac{2}{3\times 3} = \frac{2}{3} \Rightarrow \frac{2\times 3}{3\times 3} = \frac{1}{3}$$

$$8 = \frac{2}{3\times 3} = \frac{2}{3} \Rightarrow \frac{2\times 3}{3\times 3} = \frac{1}{3}$$

$$8 = \frac{2}{3\times 3} = \frac{2}{3} \Rightarrow \frac{2\times 3}{3\times 3} = \frac{2}{3}$$

$$8 = \frac{2}{3\times 3} = \frac{2}{3} \Rightarrow \frac{2\times 3}{3\times 3} = \frac{2}{3}$$

$$8 = \frac{2}{3\times 3} = \frac{2}{3} \Rightarrow \frac{2\times 3}{3\times 3} = \frac{2}{3}$$

$$8 = \frac{2}{3\times 3} = \frac{2}{3} \Rightarrow \frac{2\times 3}{3\times 3} = \frac{2}{3}$$

$$8 = \frac{2}{3\times 3} = \frac{2}{3} \Rightarrow \frac{2\times 3}{3\times 3} = \frac{2}{3}$$

$$8 = \frac{2}{3\times 3} = \frac{2}{3} \Rightarrow \frac{2\times 3}{3\times 3} = \frac{2}{3}$$

$$8 = \frac{2}{3\times 3} = \frac{2}{3} \Rightarrow \frac{2\times 3}{3\times 3} = \frac{2}{3}$$

$$8 = \frac{2}{3\times 3} = \frac{2}{3} \Rightarrow \frac{2\times 3}{3\times 3} = \frac{2}{3}$$

$$8 = \frac{2}{3\times 3} = \frac{2}{3} \Rightarrow \frac{2\times 3}{3\times 3} = \frac{2}{3}$$

$$8 = \frac{2}{3\times 3} = \frac{2}{3} \Rightarrow \frac{2\times 3}{3\times 3} = \frac{2}{3}$$

$$8 = \frac{2}{3\times 3} = \frac{2}{3} \Rightarrow \frac{2\times 3}{3\times 3} = \frac{2}{3}$$

$$8 = \frac{2}{3\times 3} = \frac{2}{3} \Rightarrow \frac{2\times 3}{3\times 3} = \frac{2}{3}$$

$$8 = \frac{2}{3\times 3} = \frac{2}{3} \Rightarrow \frac{2\times 3}{3\times 3} = \frac{2}{3}$$

$$\frac{2}{3\times 3} = \frac{2}{3\times 3} \Rightarrow \frac{2\times 3}{3\times 3} = \frac{2}{3}$$

$$\frac{2}{3\times 3} = \frac{2}{3\times 3} \Rightarrow \frac{2\times 3}{3\times 3} = \frac{2}{3}$$

$$\frac{2}{3\times 3} = \frac{2}{3} \Rightarrow \frac{2\times 3}{$$

(a)
$$\frac{3n+5}{4n+2} = \frac{3n+4}{4n+7}$$

coss multiplying a

 $(3n+5)(4n+7) = (3n+4)(4n+2)$
 $3n(4n+7) + 5(4n+7) = 3n(4n+2) + 4(4n+2)$
 $3n(4n+7) + 5(4n+7) = 3n(4n+2) + 4(4n+2)$
 $3n(4n+7) + 5(3n) + 5(7) = 3n(4n+2) + 2(3n)$
 $4n(4n) + 7(3n) + 7(3n) + 5(7) = 3n(4n) + 2(3n)$
 $4n(4n) + 7(3n) + 7(3n) + 7(4n) + 7(4n)$
 $21n + 20n + 2j = 6n + 16n + 8$
 $adding = 22n - 3j = 0n hothide$
 $41n + 3s - 3t = 2nn = 2nn + 8 - 2nn - 3j$
 $19n = -2n$
 $19n = -2n$

$$4\left(-\frac{27}{79}\right) + 2 \qquad 4\left(-\frac{27}{79}\right) + 7$$

$$3\left(-\frac{27}{79}\right) + 4\right) \times \frac{19}{19} = \left(3\left(-\frac{27}{79}\right) + 4\right) \times \frac{19}{19}$$

$$\left(4\left(-\frac{27}{19}\right) + 2\right) \times \frac{19}{19} = \left(4\left(-\frac{27}{19}\right) + 7\right) \times \frac{19}{19}$$

$$-81 + 5\left(19\right) = -81 + 19(4)$$

$$-4(19) + 38 = -19(4) + 7(19)$$

$$49 + 75 - 81 = -19(4) + 7(19)$$

$$38 - 108 = -133 - 108$$

14 = 15 -5 = 7 home withed

(3)
$$\frac{7n-2}{5x-1} = \frac{7n+3}{5x+4}$$

Cron multiplying

 $(7n-2)(5n+4) = (7n+3)(5n-1)$
 $7n(5n+4) - 2(5n+4) = 7n(5n-1) + 3(5n-1)$
 $7n(5n+4) - 2(5n+4) = 7n(5n-1) + 3(5n-1)$
 $(7n)(5n) + (7n)(4) - 2(5n) - 2(4) = (7n)(5n)$
 $-72 + 3(5n)$
 $-72 + 3(5n)$
 $-73 + 3(5$

Hence verified.

$$\frac{35}{9} - 4 = \frac{35}{9} = \frac{26}{9} + 8$$

$$\frac{35}{9} - 2$$

$$\frac{35}{9} = \frac{26}{9} - 2$$

$$\frac{35}{9} = \frac{26}{9} - 2$$

$$\frac{35}{9} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}{9}$$
Hence verified

$$\frac{94 - 7}{34 + 5} = \frac{24}$$

$$\frac{9-14}{3+10} = \frac{3-8}{1+12}$$

$$9-\frac{14}{2}$$

$$\frac{3+10}{2}$$

$$9-\frac{1}{3}$$

$$\frac{3+10}{2}$$
hence verified.

cross multiplying

publishete in in Eq.

(18)
$$\frac{3\pi - (7-5\pi)}{9\pi - (3+4\pi)} = \frac{7}{6}$$
 $\frac{3\pi - 7 + 5\pi}{9\pi - 3 - 4\pi} = \frac{7}{6}$
 $\frac{7\pi - 7}{5\pi - 3} = \frac{1}{6}$

those multiplying

 $46(7\pi - 7) = 7(5\pi - 3)$
 $42\pi - 42 = 35\pi - 21$
 $42\pi - 42 = 35\pi - 21$
 $42\pi - 42 = 35\pi + 42$
 $42\pi - 42 = 35\pi + 4$

7 = 7 B

(a)
$$\frac{15(2-11)}{1-3x} - \frac{5(x+6)}{1-3x} = 10$$
 $\frac{30'-15x-5x-50}{1-3x} = 10$
 $\frac{-20x}{1-3x} = 10$
 $\frac{-20x}{1-3x} = 10$
 $\frac{-20x}{1-3x} = 10$
 $\frac{-20x}{1-3x} = 10 - 3x(10)$
 $\frac{-20x}{10} = 10 - 30x$
 $\frac{-20x}{10} = 10 - 30x$
 $\frac{-30x}{10x} = 10 - 3x(10)$
 $\frac{-30x}{10x} = 10 - 3x(10)$
 $\frac{-30x}{10x} = 10$
 $\frac{-30x}{10x} = 10$
 $\frac{-30x}{10x} = 10$
 $\frac{-30x}{10x} = 10$
 $\frac{-30x}{1-3} = 10$
 $\frac{-30x}{10x} = 10$
 $\frac{-30x}{10x} = 10$
 $\frac{-30x}{1-3} = 10$
 $\frac{-30x}{10x} = 10$
 $\frac{-30x}{10x}$

(38)
$$\frac{n+3}{n-3} + \frac{n+1}{n-2} = 2$$

multiplying $(m-3) \cdot (m-3) \cdot (m-3) \cdot (m-3) \cdot (m-3)$
 $\frac{n+3}{23^3} \cdot (m-3) \cdot (m-3) + \frac{(n+3)}{(2n-3)} \cdot (m-3) \cdot (m-3) \cdot (m-3)$
 $\frac{(n+3)}{23^3} \cdot (m-3) + (m-3) \cdot (m+3) \cdot (m-3) \cdot (m-3)$
 $\frac{(n+3)}{23^3} \cdot (m-3) + (m-3) \cdot (m+3) \cdot (m-3) \cdot (m-3)$
 $\frac{(n+3)}{23^3} \cdot (m-3) + (m-3) \cdot (m+3) \cdot (m-3) \cdot (m-3)$
 $\frac{(n+3)}{23^3} \cdot (m-3) \cdot (m-3) \cdot (m-3) \cdot (m-3)$
 $\frac{(n+3)}{23^3} \cdot (m-3) \cdot (m-3) \cdot (m-3) \cdot (m-3)$
 $\frac{(n+3)}{23^3} \cdot (m-3) \cdot (m-3) \cdot (m-3) \cdot (m-3)$
 $\frac{(n+3)}{23^3} \cdot (m-3) \cdot (m-3) \cdot (m-3) \cdot (m-3)$
 $\frac{(n+3)}{23^3} \cdot (m-3) \cdot (m-3) \cdot (m-3) \cdot (m-3)$
 $\frac{(n+3)}{23^3} \cdot (m-3) \cdot (m-3) \cdot (m-3) \cdot (m-3)$
 $\frac{(n+3)}{23^3} \cdot (m-3) \cdot (m-3) \cdot (m-3) \cdot (m-3)$
 $\frac{(n+3)}{23^3} \cdot (m-3) \cdot (m-3) \cdot (m-3) \cdot (m-3)$
 $\frac{(n+3)}{23^3} \cdot (m-3) \cdot (m-3) \cdot (m-3) \cdot (m-3)$
 $\frac{(n+3)}{23^3} \cdot (m-3) \cdot (m-3) \cdot (m-3) \cdot (m-3)$
 $\frac{(n+3)}{23^3} \cdot (m-3) \cdot (m-3) \cdot (m-3) \cdot (m-3) \cdot (m-3)$
 $\frac{(n+3)}{23^3} \cdot (m-3) \cdot ($

$$\frac{1}{3(2n-3)} - \frac{1}{2(2n-3)} - \frac{1}{2n^2+6} = \frac{1}{2n^2+6}$$

$$\frac{1}{3(2n-3)} - \frac{1}{2(2n-3)} - \frac{1}{2n^2+6} = \frac{1}{2n^2+6}$$

$$\frac{1}{3(2n-3)} + \frac{1}{2(2n-3)} = \frac{1}{2n^2+6}$$

$$\frac{1}{3(2n-3)} - \frac{1}{3(2n-3)}$$

$$\frac{1}{3(2n-3)} - \frac{1}{3(2n-3)}$$

$$\frac{1}{3(2n-3)} - \frac{1}{3(2n-3)}$$

$$\frac{1}{3(2n-3)} - \frac{1}{3(2n-3)}$$

$$\frac{37}{57} \frac{4^{2} - (4(1+2)(1+2))}{574+1} = 6$$

$$\frac{7^{2} - (4(1+2)+1(1+2))}{574+1} = 6$$

$$\frac{7^{2} - 2^{2} - 24 - 12 - 2}{574+1} = 6$$

$$\frac{7^{2} - 2^{2} - 24 - 12 - 2}{574+1} = 6$$

$$\frac{7^{2} - 2^{2} - 24 - 12 - 2}{574+1} = 6$$

$$\frac{7^{2} - 2}{574+1} = 6$$

$$\frac{7^$$

$$\frac{64}{1089} - \frac{17 \times 18}{1089}$$

$$= \frac{33 + 40}{33}$$

$$= \frac{64 - 1450}{1089 \times (-7)}$$

$$= \frac{-1386}{1089 \times (-7)} = 6$$

$$= \frac{-7}{33}$$

$$= \frac{71198 \times 33}{33 \times 33 \times 1} = +6$$

$$= \frac{6 \times 37}{33 \times 33 \times 1}$$

$$= \frac{6 \times 6}{6 \times 411}$$

$$= \frac{8}{3}$$

$$= \frac{2n + 3 - 5x + 7}{6x + 11} = \frac{-8}{3}$$

$$= \frac{8}{3}$$

adding +48x -30 on hothsidy.

$$-9m + 30 + 48n - 30 = -48x - 88 + 48x - 30$$

$$39m = -88 - 30.$$

$$39m = -188$$

$$3m = -118$$

()
$$\frac{n^2-9}{5+n^2} = \frac{-5}{8}$$

One multiplies

substitute +2

$$\frac{y^2 + y}{3y^2 + 7} = \frac{1}{2}$$

substitute n =

Linear Equation In One Variable Ex 9.4

En: 9.4

(1) Given help sa' be the given number

Given that

$$\frac{4}{5} \approx \frac{3}{4} \approx 4$$
 $\frac{4}{5} \approx \frac{3}{4} \approx 4$
 $\frac{4}{5}$

Given on
$$=\frac{\pi}{2}$$
 + 45

The fiven on $=\frac{\pi}{2}$ + 45

The Eq. with 2 on his entry = $\frac{\pi}{2} \times 2 + 45 \times 2$
 $4\pi = 2 \times 40$
 $3\pi = 40$
 $\pi = 30$

(b) Let the number be 'a'.

Given 5n-5=2n+4 3n=9 n=3

!. The number is 3. .

(3) Let the number be 'n'.

(4) - 7 = 40

(4) - 7 = 80

(5) with worth on by

(6) x 24 - 20 (7) = 60 x 20

(7) - 42 - 200

(7) - 42 - 200

The number is too 200

(a) let the number be
$$xy - \frac{1}{9}$$
. Then $x + y = \frac{9}{9}$, $xy - 27 = yx$.

(b) let $184 = x + y$

(given $\frac{7}{3} = \frac{7}{7} + 8$.

 $x = \frac{1}{9} = \frac{1}{9} + 8$.

 $x = \frac{1}{9} = \frac{1}{9} + 8$.

 $x = \frac{1}{9} = \frac{1}{9} + \frac{1}{9} = \frac{1}{9}$
 $x = \frac{1}{9} = \frac{1}{9} = \frac{1}{9}$

(b) Let the freetien be $(\frac{7}{9})$
 $x = \frac{1}{9} = \frac{1}{9}$
 $x = \frac{1}{9} = \frac{1}{9}$

- 3y-9-2y , and = 9-6 =3

```
The fraction 3 = 3 = (13)
   Con let no. of RS10 rister beat
(9)
        mof 14.20 notes bey
     Given 1001 + 204 = 800.
         nty = 50 -0
         n+y-80-0
     1 -0 a y = 30
              x = 50-4
     no. of Rilo notes 1220 Eno. of Rs. 20 notey 1330.
(1) let be no of sofase cons, y he 25-gase com
    Given 900 = 50x + Wy.
            * -2 -4-22
           y=29
           900 = 50x + 25(2x)
              900 = 50x+ 50x
                  100% - 900)
                          coms = 9
            no of sofase
                  25 .
```

(1) let age of surithe be a years

age of Ashmabe y years

$$G(y) = (y + 4)$$
 $M(y - 6) = y + 4$
 $M(y - 6) = y + 4$
 $M(y - 24 = 2y + 4)$
 $M(y - 24 = 2y$

ages of some be s year

age of more be M year

Jun S:
$$M = 7:J^{-}$$

agter term ten years

 $\frac{S+10}{M+10} = \frac{9}{7}$
 $\frac{S}{M} + \frac{10}{M} = \frac{9}{7}$

Moss multiplying $7 \left(\frac{1}{3} + \frac{10}{11}\right) = 9(1+\frac{10}{11})$

(ats) = 3(y+5) - 0 (ats) = 3(y+5) - 0

$$(31+2) = 3(3+2) = 0$$

(14) (ib) age of man be 7. years

given
$$x = 5y$$
 $(m+6) = 3(y+6)$
 $5y+6 = 3y+18$
 $2y = 12$
 $y = 6$

age of son is eyears

age of Mon is $5y$ i.e. 30 years.

18 & leb no. of Rs. 10 notes be a leb no. of Rs. 5 notes be y

Given that
$$M = 10 + y$$

10 (10+y)+5y = 1000

100+10y+45y = 1000

15y = 900

y = 60

no of ten super notes =70 no of 5 super notes =60

let total no. of quests be in.

A drank colar, of drank equest, of a drank

fruit juice & 3 did not drank anythms

no of person who drank is

a m + m + m + m = m

but no. of person who drank is on ->)

$$(n-3) = \frac{2}{4} + \frac{9}{3} + \frac{20}{5}$$

$$(n-3) = 2 \left[\frac{15 + 24}{60} \right]$$

$$60(n-3) = 2(59)$$

$$600 - 180 = 592$$

$$2 = 180$$

: Total no-of person whoattendparty is 180.

Griven to tal no. of question = 180 manles swored - 456 let the correct arrivers be x marks scared by markey correct answerst ⇒ 4°a remaining questions unattempted or wring is 7 (180 -30) morks reduced due to this is راهه-مع) (سا) : Total morely scored a 4x -1 (180-m) a 4a+a=180 =1 Fx -180 But mark scored = 450. 0-14 = 081 - KT .. 5x = 630 x= 126 .

correct answers marked are 126

Total no. of days to be engaged is 20
amount receives if he work for aneday = Rs. 60
amount fined if he is absent for aneday = Rs. 5.
amount remerived by worker = Rs. 745.

let "Kibe no. of days he worker
then (20-%) is no. of days he left worked amount received for doing work = x x to
amount fined for absence = (20-26) 5.

Total amount secenced = 60% -5 (20-26)

60x - 100 + 171 = 741 65x = 845 x = 845 = 165 13

no of day & he worked is 13.

multiplying the Equation with 12m on hothside.

$$\frac{2}{3(-10)} = \frac{3}{2(-10)} = \frac{1}{12}$$

$$\frac{16}{9} + \frac{1}{3} + \frac{13}{108} \pi = \frac{8\pi + 19}{18}$$

Hence verified.

1 tence verified.

4 th
$$+\frac{1}{3} + \frac{13}{108}\pi = \frac{8m+19}{18}$$

1 multiply the equation with 108.

18 multiply the equation with 108.

18 multiply the equation with 108.

18 multiply the equation with 108.

Given
$$m = y - 3$$

$$\frac{M+2}{y+5} = \frac{1}{2}$$

$$2(x+2) = (y+5)1$$

$$2x+4 = y+5$$

$$2x+4 = x+3+5$$

$$y = 4+3$$

$$y = 7$$

The rational no is $\begin{bmatrix} \frac{4}{7} \end{bmatrix}$

2) let the number be
$$(\frac{7}{9})$$

Grives $2n = 2 + 9$
 $\frac{71+3}{9+3} = \frac{2}{3}$
 $3(x+3) = 2(y+3)$

$$3x+9 = 2y+6$$

 $3x+9 = 2(2x-2y+6)$
 $3x+9 = 4x-4+6$

Given tet dis Given distance between stations d= 340km. let speed of trem . A = or km/hr Grives 'n-y = 5 km/hr after too hours distance travelled by train Ary 2x km 4 4 Tranbar by km. distance between trains of d - (2xx+2y) e d -2(aty) = 340 - 2(7ty) distance between is given as 30km : 340 - 2 (aty) = 30 2(2+4)= 310 nty = 155

2× = 160 n =80

speed of train A . 1380 trally . B is trimiter Tel stre speed of boat be - ntmlbre dow speed of stream is Italian ups downstream not speed = (n+1) bm/hrs. Tet distance travelled be d' pm time taken do-ostreom or distorce a (d) hi tom & upstream net speed = (201) boulbre time taken upstream = $\frac{distance}{speed}$ = $\left(\frac{d}{\pi - i}\right) \frac{tim/bi}{s}$ Given $\frac{d}{n+1} = 9$, $\frac{d}{n-1} = 10$. d=9(4+1) , d=10(7-V . q(m+1) = 10(m-1) 97179 = 107-10 2 = 19 km/hr exceed of streamer in gotill water is 19 km/br : d = 9(m+1)

= 9/20) d = 180 km distance : 12 180km

Total amount = Rs. 12,000

let amount invested on 10% interest be Ps. 2.

: amount invested on 12% interest is Re. (17,000-7)

amount earned by 10.1 interest is

corned by 12.1. interestis amount

a 12x (12,000-x)

total amount earned is

but gives that amount commed is 1280 Ps.

LOX + 144000 -12x = 128000

- 2m + 1,44,000 - 1,28,000

2x = 1,44000 -1,28,000

2×1 = 16,000

X=8,8000

:, amount invested on 10% interest is Ry. 8000

& amount invested on 12% interest is

Rg. 4, 000.

& let length of sectangle be I con breadth 4 1= 6+9 Given tops Area = 1xb When I, b are increased by 3cm L+3, b+3 Area A, = (1+3) (6+3) Gayner that $A_1 = A + 84$. (2+3)(b+3) = 16 +84. 1×+3b+9+31 = ×6+84 3 (1+6) +9 =84 Grover 1-6=9 -0 (1) +(1) 21 = 34 1=17 m b= 17-9 p = gun 1 ength = 174m

breadth = 800.

The father age = 100-x years.

any's present age = (100-x) years.

after (100-2m) years

Any's age = \[\left[\frac{100-11}{5} + 100-27 \right] year = \frac{600-117}{5} year

Given 600-117 = 718

fathers age = 6r years

Any's any age = 13 years.

amount spent on hanking = R_1 . $\frac{\pi}{2}$ amount given to beggar

amount left = $\pi - \frac{\pi}{2} - 1$ amount left = $\pi - \frac{\pi}{2} - 1$ $\pi = \frac{\pi}{2} - \frac{\pi}{2} - \frac{\pi}{2}$

amount spent on food = B (4)

amount left $= (\frac{x-x}{2}) - (\frac{x-x}{4}) + 2$ amount left $= (\frac{x-x}{4}) - 2$ amount left $= (\frac{x-10}{4})$ amount spent on book $= (\frac{x-10}{8})$ Rs.

amount spent on bus = Rs. 3

amount left $= \frac{x-10}{4} - 3 - \frac{(x-10)}{8}$ $= \frac{x-20-76+10}{8} - 3$ $= \frac{x-10}{8} - 3$ $= \frac{x-10}{8} - 3$ but amount left $= \frac{x-10}{8} - 3$ $= \frac{x-34}{8} - 3$ hut amount left $= \frac{x-34}{8} - 3$

The amount pant on she started with is

Rs. 42.