



PING YI SECONDARY SCHOOL
Perseverance Yields Success

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Class 312

Subject MATHS, practice 2C pg 61

No. 11

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1a. $y = 6x - 3$

$x = \square$

$y - 6x = -3$

$(-6)x = -3 - y$

$x = \frac{-3 - y}{-6}$

same.
 $\frac{-1}{6} = \frac{1}{-6}$

method 2:
 $\frac{-3 - y}{-6} = \frac{-(-3 - y)}{6}$
 $= \frac{3 + y}{6}$

1b. $x - y = 5$

$x = 5 + y$

same.

1c. $y + 7 = 2x - 3$

SWAP

L.H.S

and

R.H.S

$2x - 3 = y + 7$

$2x = y + 7 + 3$

$2x = y + 10$

$x = \frac{y + 10}{2}$

1d. $2y = 3x$

$3x = 2y$

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

1e. $-y = 5x + 2$

$5x + 2 = -y$

$5x = -y - 2$

$x = \frac{-y - 2}{5}$

1f. $3xy = 1$

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

1g. $x(y - 4) = 1$

$x = \frac{1}{(y - 4)}$

$$\begin{aligned}
 \text{iv. } \frac{6}{x}(y+2) &= -1 \\
 \frac{6}{x} &= \frac{-1}{(y+2)} \\
 6 &= \frac{-1}{(y+2)} \times x \\
 \frac{-1}{(y+2)} \times x &= 6 \\
 x &= 6 \div \frac{-1}{(y+2)} \\
 &= 6 \times \frac{(y+2)}{-1} \\
 &= -6(y+2)
 \end{aligned}$$

Alternative

$$\frac{6}{x}(y+2) = -1$$

$$\frac{6(y+2)}{x} = -1$$

$$6(y+2) = -x$$

$$-1x = 6(y+2)$$

$$x = \frac{6(y+2)}{-1}$$

$$x = -6(y+2) \#$$

$$\text{ii. } 6(xy+2) = y$$

$$6xy + 12 = y$$

$$6xy = y - 12$$

$$x = \frac{y-12}{6y} \#$$

$$\text{ij. } 4(y+2) = 3(4-x)$$

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

$$12 - 3x = 4(y+2)$$

$$-3x = 4(y+2) - 12$$

$$x = \frac{4(y+2) - 12}{-3} \#$$

$$2a. \quad v = u + at \quad (+)$$

$$u + at = v$$

$$at = v - u$$

$$t = \frac{v-u}{a} \#$$

$$2b.$$

$$F = \frac{9C}{5} + 32 \quad (C)$$

$$\frac{9C}{5} + 32 = F$$

$$9C = F - 32$$

$$9C = (F - 32) \times 5$$

$$C = \frac{(F - 32) \times 5}{9}$$

$$C = \frac{5(F - 32)}{9} \#$$

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2c. $v^2 = u^2 + 2as$

$$u^2 + 2as = u^2$$

$$2as = v^2 - u^2$$

$$s = \frac{v^2 - u^2}{2a}$$

2d. $A = \frac{1}{2}h(a+b)$

$$= \frac{1}{2}h(a+b) = A$$

$$= \frac{1}{2}ah + \frac{1}{2}bh = A$$

$$\frac{1}{2}bh = A - \frac{1}{2}ah$$

$$b = \frac{A - \frac{1}{2}ah}{\frac{1}{2}}$$

Simplify;

$$b = \frac{A - \frac{1}{2}ah}{\frac{1}{2}}$$

$$b = \frac{2A - ah}{\frac{1}{2}} = \frac{2A - ah}{\frac{1}{2}}$$

$$b = \frac{2A - ah}{\frac{1}{2}} \times \frac{2}{2}$$

$$b = \frac{2A - ah}{\frac{1}{2}}$$

2e. $m = \frac{2y-3}{n}$ (y)

$$\frac{2y-3}{n} = m$$

$$2y-3 = mn$$

$$2y-3 = mn$$

$$2y = mn + 3$$

$$y = \frac{mn+3}{2}$$

$$m(n) = m \times n = mn$$

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