

## UBMS

$$1) \quad J \rightarrow 3 \text{ hours} \quad J = \frac{1}{3}$$

$$M \rightarrow 2 \text{ hours} \quad M = \frac{1}{2}$$

$$J+M \rightarrow \frac{1}{3} + \frac{1}{2} \rightarrow \frac{3+2}{6} \rightarrow \frac{5}{6} \text{ rate}$$

rate  $\times$  Time  $\rightarrow$  amount.

$$\frac{6x}{5} \times \frac{5}{6} \times T = \frac{1}{5} \times \frac{6}{5} \quad T \rightarrow \frac{1 \times 6}{5} \quad T \rightarrow \frac{6}{5}$$

$$T \rightarrow 1 \text{ hr, } 20 \text{ min.}$$

$$2) \quad \textcircled{y} = -3x + 4 \quad \text{--- ①} \quad (x) \times X$$

$$x + 4(-3x + 4) = -6$$

$$x + (-12x + 16) = -6$$

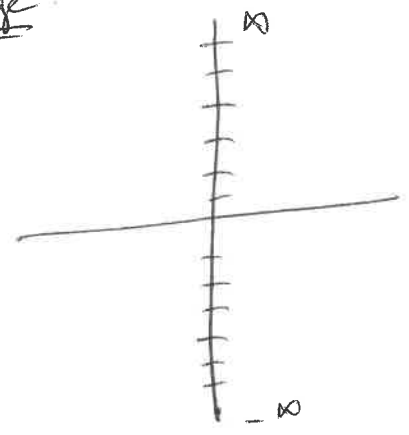
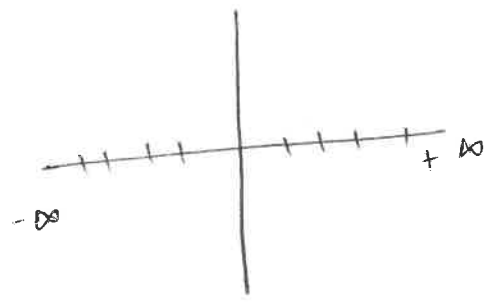
$$x - 12x + 16 = -6$$

$$-11x = -22 \rightarrow x = \frac{-22}{-11}$$

$$\underline{x = 2}$$

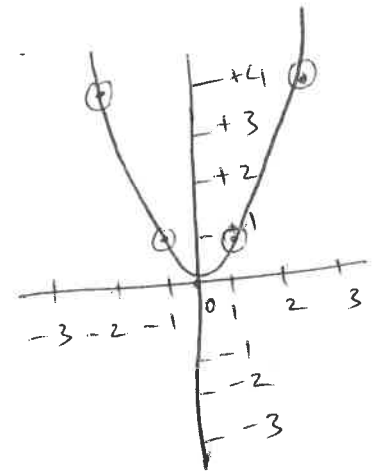
Domain:-

Range:-



$y = x^2$

- $x = -1$   $x = 2$
- $(1, 1)$
- $(2, 4)$

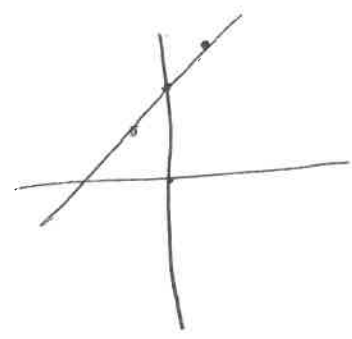


$D \rightarrow (-\infty, \infty)$   
 $R \rightarrow (0, \infty)$

$y = 2x + 8$

- $x = 1$   $y = 10$
- $x = 0$   $y = 8$
- $x = -1$   $y = 6$

- $(1, 10)$
- $(0, 8)$
- $(-1, 6)$



Percentage:-

8% of \$46

$\frac{8}{100} \times 46 \rightarrow$

