

Question 3.

$$a) 2y - x - (x - 2) = 10$$

$$2y - x - x + 2 = 10$$

$$2y - x - x + \cancel{2} - \cancel{2} = 10 - 2$$

$$2y - x - x = 8$$

$$\cancel{2y} - \cancel{2y} - x - x = 8 - 2y$$

$$\underline{-2x = 8 - 24}$$

-2 -2

$$\underline{x = 8 - 2y}$$

$$b) \left(\frac{x - b^2}{b} \right) = 4c$$

$$\frac{x-b^2}{b} \times \frac{4c}{1}$$

$$x - b^2 = 4cb$$

$$x - \cancel{b^2} + \cancel{b^2} = 4cb + b^2$$

$$x = 4cb + b^2$$

Question 2,

Solve the equations.

$$3x - 6 - 5 = -10$$

3

$$3x - 6 - 5 + 5 = -10 + 5$$

$$x - 36 - 5 + 5 = 10 + 5$$

$$3x - 6 = -5$$

3

$$3x - 6 \times 3 = -5 \times 3$$

25

$$3x - 6 = -15$$

$$3x - \cancel{6} + \cancel{6} = -15 + 6$$

$$\beta x = -9$$

$$\frac{3}{3}$$

$$p = 14000$$

$$R = 7\%$$

$$T = 3$$

$$I = \frac{14000 \times 7 \times 3}{100}$$

$$= 294000$$

100

~~= 2940~~

$$\text{Rm } 14000 + \text{Rm } 2940 = \text{Rm } 16940$$

Question 4.

$$A = P(1+r)^t$$

A = Amount

$$p = 8000$$

$$R = 0.05$$

$$t = 5$$

$$A = 8000 (1 + 0.05)^5$$

$$= 10210.25$$

Question 5.

$$2x - y = 4 \sim (1)$$

$$- 2x - 3y = -2 \sim (2)$$

$$\frac{2y}{2} = \frac{6}{2}$$

$$y = 3$$

Sub $y = 3$ into (1)

$$2x - y = 4$$

$$2x - 3 = 4$$

$$2x - 3 + 3 = 4 + 3$$

$$\frac{2x}{2} = \frac{7}{2}$$

$$x = \frac{7}{2}$$

$$\therefore y = 3, y = \frac{7}{2}$$