$$\therefore x = x_0 + \frac{y - y_0}{y_1 - y_0}(x_1 - x_0)$$

$$= 75 + \frac{120 - 125}{55 - 125}(65 - 75)$$

$$= 75 - 0.714 \quad = 74.3$$

∴ New Code(P_1) point is (74.3, 120)

Now Code (P_2) = 0100

→ ∴ Bit 2 = 1

∴ So the line is intersect with Ymin

$$\therefore y = Y_{min} = 60$$

$$\therefore x = x_0 + \frac{y - y_0}{y_1 - y_0}(x_1 - x_0)$$

$$= 75 + \frac{60 - 125}{55 - 125}(65 - 75)$$

$$= 75 - 10.888 \quad = 64.2$$

∴ New Code (P_2) point is (64.2, 60)

→ New Code (P_1) = 0010

→ New Code (P_2) = 0000

→ First test:

Code (P_1) | Code (P_2) = 0010

→ no conclusion

→ Second test:

Code (P_1) & Code (P_2) = 0000

→ intersect

→ replace P_1, P_2 with new points.

Here, Code (P_1) = 0010

∴ Bit 3 = 1

∴ So the line is intersect with x_{max}

$$\therefore x = x_{max} = 70$$