$\rightarrow$ intersect

$\rightarrow$ replace $P_1$, $P_2$ with new points

Here, Code $(P_1) = 0010$

$\therefore$ Bit $3 = 1$

$\therefore$ So the line is intersect with $X_{max}$

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

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

$= 120 + \dfrac{70 - 73.4}{55 - 73.4}\,(65 - 120)$

$= 120 + 0.2\,(-55)$

$= 109$