① diketahui :

titik awal = P (1, 1)

titik akhir = Q (10, 10)

y min = 1

x min = 1

x max = 7

y max = 7

Jawab .

⁃) garis P

L = 0
R = 0
B = 0
T = 0

garis Q

L = 0
R = 1
B = 0
T = 1

⁃) 0000 AND 0101 = 0000

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{10 - 1}{10 - 1} = \frac{9}{9} = 1$$

$$x_p = x_1 + \frac{y_{min} - y_1}{m}$$

$$x_p = 1 + \frac{1 - 1}{1} = \frac{1 + 0}{1}$$

$$= \frac{1}{1}$$

$$x_p = 1$$

maka titik potongnya

$(x_p, y_{min}) = (1, 1)$

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② Dikot : $x_1 = 1$

$x_r = 7$

$y_b = 1$

$y_t = 7$

$P = (1, 1)$

$Q = (10, 10)$

Jawab:

$dx = x_2 - x_1$

$= 10 - 1$

$dx = 9$

$dy = y_2 - y_1$

$= 10 - 1$

$dy = 9$

→ $p_1 = -dx$

$p_1 = -9$

→ $q_1 = x_1 - x_l$

$= 1 - 1$

$q_1 = 0$

→ $p_2 = dx$

$p_2 = 9$

→ $q_2 = x_r - x_1$

$= 7 - 1$

$q_2 = 6$

→ $p_3 = -dy$

$p_3 = -9$

→ $q_3 = y_1 - y_b$

$= 1 - 1$

$= 0$

→ $p_4 = dy$

$p_4 = 9$

→ $q_4 = y_t - y_1$

$= 7 - 1$

$= 6$

untuk $(pi < 0)$ T_1 = "max" $(0,0,0) = 0$

untuk $(pi > 0)$ T_2 = "min" $\left(\frac{2}{3}, \frac{2}{3}, 1\right) = \frac{2}{3}$

Jadi, $T_1 < T_2$

$T_1 = 0$

$x_1 = x_1 + dx \cdot t_1$

$= 1 + 9 \cdot 0$

$= 1 + 0$

$x_1 = 1$

$y_1 = y_1 + dy \cdot t_1$

$= 1 + 9 \cdot 0$

$= 1$

$\therefore (x_1, y_1) = (1, 1)$

$T_2 = \frac{2}{3}$

$x_2 = x_1 + dx \cdot t_2$

$= 1 + \cancel{9}^{3} \cdot \frac{2}{\cancel{3}_1}$

$= 1 + 6$

$x_2 = 7$

$y_2 = y_1 + dy \cdot t_2$

$= 1 + \cancel{9}^{3} \cdot \frac{2}{\cancel{3}_1}$

$y_2 = 7$

$\therefore (x_2, y_2) = (7, 7)$.