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1) P = (1,1) , akhir Q = (10,10) x min , y min , x max = 1 , y max

= 1,1 , 9,9

L = linier $x < x_{min}$ atau $1 < 1 = 0$ (0000)

R = —"— $x < x_{max}$ atau $1 < 9 = 0$

B = —"— $y < y_{min}$ dan $1 < 1 = 0$

T = —"— $y < y_{max}$ atau $1 < 9 = 0$

garis Q = (10,10)

L = linier $x > x_{min}$ atau $10 > 1 = 0$

R = —"— $x > x_{max}$ —"— $10 > 9 = 1$

B = —"— $y > y_{min}$ —"— $10 > 1 = 0$

T = —"— $y > y_{max}$ —"— $10 > 9 = 1$

Jadi = —"— region code kurva ujung garis pada (0 000), maka perlu dipotong

Penentuan titik potong

$$m = \frac{y_2 - y_1}{x_2 - x_1} \qquad P = (1,1) \quad Q = (10,10)$$

$$\text{Jadi} = \frac{10 - 1}{10 - 1} = 1 \qquad P = (1,1) \text{ adalah } 0000$$

—"— : $1 + 1 \times (0 - 1)$

yP_1 = 0 (tipot)

$$xP_1 = x_1 + \frac{y_{min} - y_1}{m} = 1 + \frac{1 - 1}{1} = 1$$

tipot = (1,1)

region code Q (10,10) 1010

Jadi $y_{P2} = y_1 + m\ (x_{max} = x_1) = 10 + 1\ (7-10) =$
titik (7,7)

Jadi $x_{P2} = x_1 + \frac{y_{max} - y_1}{m} = \frac{10 + 7 - 10}{1} = 2$

titik (7,7)
titik garis P yaitu (1,0), (1,1), (7,7), (7,7) view port (1,1) dan (7,7)

a) P (1,1), Q (10,10)
$x_1 = 1, x_r = 7, y_b = 1$ dan $y_t = 7$

$dx = x_2 - x_1$
$= 10 - 1 = 9$

$dy = y_2 - y_1$
$= 10 - 1 = 9$

$p_1 = -dx$
$= -9$

$p_2 = dx$
$= 9$

$p_3 = -dy$
$= -9$

$p_4 = dy$
$= 9$

$q_1 = x_1 - x_2$
$= 1 - 1 = 0$

$q_2 = x_R - x_1$
$= 7 - 1$
$= 6$

$q_3 = y_1 - y_B$
$= 1 - 1 = 0$

$q_4 = y_t - y_1$
$= 7 - 1 = 6$

$\rightarrow q_1/p_1 = 0/-9$
$= 0$

$\rightarrow q_2/p_2 = 6/9$
$= 2/3$

$\rightarrow q_3/p_3 = 0/-9$
$= 0$

$\rightarrow q_4/p_4 = 6/9$
$= 1/3$

$(P_1 < 0)\ T_1 = (0, 0, 0) = 0$
$\rightarrow T_2 = (2/3, 2/3, 1) = 2/3$

$T_1 < T_2$

$T_1 = 0$
$x_1 = x_1 + dx_1 \cdot T_1$
$= 1 + 9 \cdot 0$
$= 1 + 0$
$= 1$

$y_1 = y_1 + dy \cdot T_1$
$= 1 + 9 \cdot 0$
$= 1$

maka $(x_1, y_1) = (1,1)$

$T_2 = 2/3$
$x_2 = x_1 + dx \cdot T_2$
$= 1 + 9 \cdot 2/3$
$= 1 + 6$
$x_2 = 7$

$y_2 = y_1 + dy \cdot T_2$
$= 1 + 9 \cdot 2/3$
$= y_2 = 7$

maka $(x_2, y_2) = (7,7)$