1) P = (1,1), Akhir Q = (10,10) xmin, ymin, xmax, ymax = 1, 1, 7, 7

    Garis P (1,1)

    L = Karena x < xmin atau 1 = 1 = 0

    R = Karena x < xmax atau 1 < 7 = 0   (0000)

    B = Karena y < ymin atau 1 = 1 = 0

    T = Karena y < ymax atau 1 < 7 = 0

    Garis Q (10,10)

    L = Karena x < xmin atau 10 > 1 = 0

    R = Karena x < xmax atau 10 > 7 = 1   (0101)

    B = Karena y < ymin atau 10 > 1 = 0

    T = Karena y < ymax atau 10 > 7 = 1

    Jadi karena region kode curva ujung garis pada (0000), maka perlu dipotong

    Penentuan titik potong

$$M = \frac{y2 - y1}{x2 - x1} \quad P = (1,1)\ Q = (10,10)$$

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

$$= 1 + 1 \times (0 - 1)$$

    Yp1 = 0 (titik potong)

$$Xp1 = x_1 + \frac{ymin - y1}{M} = 1 + \frac{1 - 1}{1} = 1$$

    Titik potong adalah (1,1)

    Region code Q (10,10) 1010

    yp2 = y_1 + M x (xmax − x_1) = 10 + 1 (7 − 10) = 7

    titik potong (7,7)

$$xp2 = x_1 + \frac{ymax - y1}{M} = 10 + \frac{7 - 10}{1} = 7$$

    titik potong nya adalah (7, 7)

    titik potong garis yaitu (1,0), (1,1), (7,7), (7,7)

    viewport (1,1) dan (7,7)

2) P (1,1) Q (10,10)

    X1 = 1 , xr = 7, yb = 1 dan yt = 7

    dx = x2 − x1

    = 10 − 1 = 9

P1 = -dx
= -9
P_2 = dx
= 9
P_3 = -dy
= -9
P_4 = dy
= 9

dy = y2 − y1
= 10 − 1 = 9
Q_1 = x1 −x2
= 1 − 1 = 0
Q_2 = XR −X_1
= 7 − 1
= 6
Q_3 = y_1 − yB
= 1 − 1 = 0
Q_4 = yT − y1
= 7 − 1 = 6

➔ Q1 / p1 = 0/-9
➔ Q2 / p2 = 6/9
   = 2/3
➔ Q3 / p3 = 0/-9
   =0
➔ Q4 / p4 = 6/9
   = 2/3

   Untuk (pi < 0)T_1 = (0,0,0) = 0
   Untuk (pi < 0)T_2 = (2/3, 2/3, 2/3,) = 2/3
   T_1 < T_2

   T_1 = 0
   X_1 = x1 + dx x t1
      = 1 + 9 x 0
      = 1 + 0
   X_1 = 1
   Y_1 = y1 + dy x t_1
      = 1 + 9 x 0
      = 1
➔ (x_1, y_1) = (1,1)
   $T_2 = \frac{2}{3}$
   X_2 = x_1 + dx x t_2

$$= 1 + 3 \times \frac{2}{3}$$
$$= 1 + 6$$
$$X_2 = 7$$

$$Y_2 = y_1 + dy \times t_2$$
$$= 1 + 9 \times \frac{2}{3}$$
$$Y_2 = 7$$
$$(x_2, y_2) = (7,7)$$