041 / MI 19 B. Tugas 4 - WINDOWING AND CLIPPING -1:5 1. Titik awal . p (1,1) Xmin=1 Xmax = 7 Titikakhir Q(10,10) ymin = 1 . Vertex P (1,1) L = 0 R = 0 B = 0 T = 0 Herre Region code untik ujung P (1,1) adalah 0000. Bersifat fully visible dan tidak perlu dipotong. · Vertex Q (10,10) L = 0 B = 0 Region code untuk a (10,10) adalah 1010. Bersifat partially invisible dan pertu dipotong . Pitik potong garis Pa (1.1) (10,10) $M = \frac{y_2 - y_1}{x_2 - x_1} = \frac{10 - 1}{10 - 1} = 1$. · Region code 1010 untuk vertex Q (10,10) T-1 => XP2 = X, + ymax - y, = 10 + 7 -10 = 7 Titik potong (7,7) R=1 = D 9Pz = 4, + M (xmax - x1) = 10 + 1 (7-10) = 70. Titik potong (7.7)

Jadl, filix potongnya adalah (7,7)

DYAHAYU R.W

$$\Delta x = x_2 - x_1 = 10 - 1 = 9$$

•
$$P_1 = -\Delta x$$

= -9
• $P_2 = \Delta x$
= 9
• $P_3 = -\Delta y$
= -9
• $P_4 = \Delta y$

$$Q_{1} = X_{1} - X_{2} = 1 - 1 = 0$$

$$Q_{2} = X_{R} - X_{1} = 7 - 1 = 6$$

$$Q_{3} = Y_{1} - Y_{5} = 1 - 1 = 0$$

$$Q_{4} = Y_{4} - Y_{1} = 7 - 1 = 6$$

$$q_{12}/p_{2} = \frac{2}{3}$$
 $q_{13}/p_{3} = 0$
 $q_{14}/p_{4} = \frac{2}{3}$

$$*P_1, P_3 < 0$$
 $t_1 = \max(0, \frac{d_1}{p_1}, \frac{d_1}{p_3})$
 $= \max(0, 0, 0)$
 $= 0.$

$$P_2$$
, $P_4 > 0$
 $t_2 = min(1, \frac{9n_2}{p_2}, \frac{9n_4}{p_4})$
= $min(1, \frac{2}{3}, \frac{2}{3})$
 $t_2 = \frac{2}{3}$

$$-t_{2} = \frac{2}{3}.$$

$$x_{2}' = x_{1} + t_{2} \Delta x$$

$$= 1 + (\frac{2}{3} \cdot \frac{3}{3})$$

$$= 7$$

$$y_{2}' = y_{1} + t_{2} \Delta y$$

$$= 1 + (\frac{2}{3} \cdot \frac{3}{3})$$

$$= 7$$

$$(x_{2}', y_{2}') = (7,7)$$