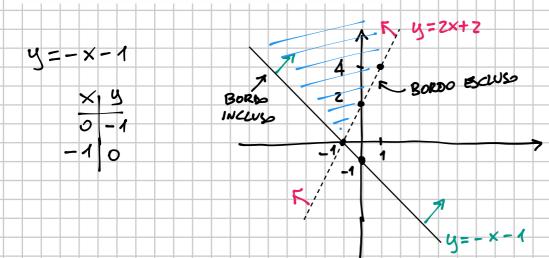
$$\begin{cases} y \ge -x - 1 \\ 2x - y + 2 < 0 \end{cases}$$

y=2x+2

× 1 9



Il pento (-1,0) è inclus o osclus ? È Escus piche non
appartiene a 2x-y+240

(per essere incluse storrable appartenere a entrandi i semipiani)

X + 2y - 6 = 0x = 1 + 34trell i punt che hams l'asaine che super di 1 il triple dell'ordinata (x+2y-6=0)stame sula retta X=1+34 x=1+34 1+34+24-6=0 54=5 P(4,1) x=1+34 x = 4posente per Q (2,4)  $m_n = -\frac{a}{lr} = -\frac{1}{2}$ y-4=2(x-z) Cantinecipaco di y-4=2x-4

c) 
$$\begin{cases} x + 2y - 6 = 0 \\ y = 2x \end{cases}$$
  $\begin{cases} x + 4x = 6 \\ y = \frac{12}{5} \end{cases}$   $\begin{cases} y = \frac{12}{5} \end{cases}$ 

$$P(4,1)$$
 $Q(2,4)$ 
 $H(\frac{6}{5},\frac{12}{5})$ 

$$PH = \sqrt{\left(4 - \frac{6}{5}\right)^2 + \left(1 - \frac{12}{5}\right)^2} = \sqrt{\left(\frac{14}{5}\right)^2 + \left(-\frac{2}{5}\right)^2} =$$

$$=\sqrt{\left(\frac{7}{5}\right)^2 \cdot (2)^2 + \left(\frac{7}{5}\right)^2} = \sqrt{\left(\frac{7}{5}\right)^2 \left[4+1\right]} = \frac{7}{5}\sqrt{5}$$

$$QH = \sqrt{(2-\frac{6}{5})^2 + (4-\frac{12}{5})^2} = \sqrt{(\frac{4}{5})^2 + (\frac{8}{5})^2} = \frac{4}{5}\sqrt{5}$$