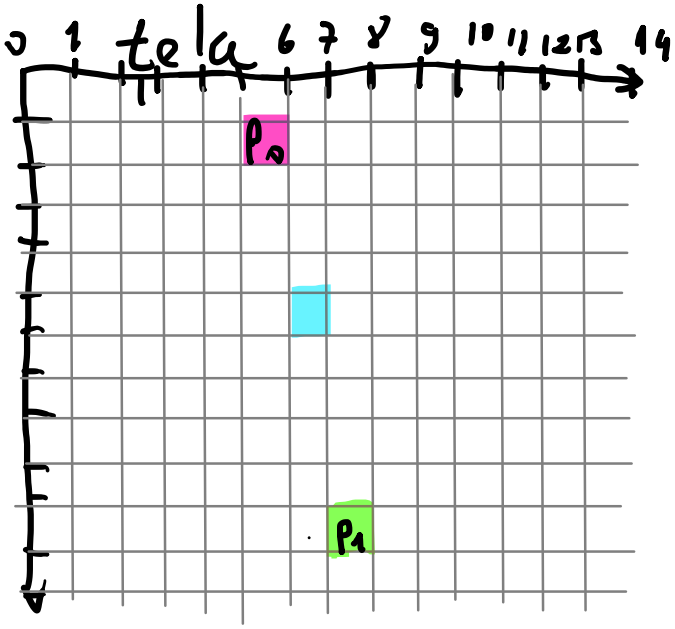
# Desenhando linhas

sexta-feira, 22 de abril de 2022 18:03




$P_0 = (5,1)$ , $P_1 = (7,10)$

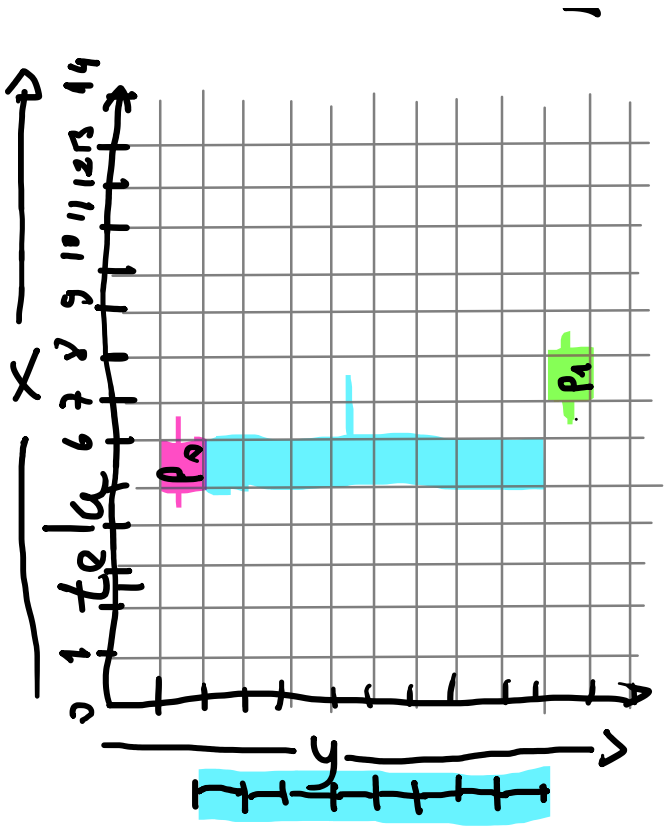
$a = \frac{10-1}{7-5} = \frac{9}{2}$

$b = 1 - \frac{9}{2} \cdot 5 = \frac{2-45}{2} = -\frac{43}{2}$

$x = 6 \rightarrow y = \frac{9}{2} \cdot 6 + \left(-\frac{43}{2}\right)$

$x = 6 \rightarrow y = 27 - \frac{43}{2} = \frac{54-43}{2}$

$x = 6 \rightarrow 5,5$




$y = ax + b \rightarrow$

$ax = y - b$

$\therefore x = \frac{y-b}{a}$

$P_0 = (5,1) \quad P_1 = (7,10)$

$a = \frac{10-1}{7-5} = \frac{9}{2} \qquad b = 1 - \frac{9}{2} \cdot 5 = -\frac{43}{2}$

$y = 2 \rightarrow \quad x = \frac{2 - \left(-\frac{43}{2}\right)}{\frac{9}{2}} = \frac{\frac{47}{2}}{\frac{9}{2}} \qquad \frac{47}{2} \cdot \frac{2}{9} = \frac{47}{9}$

$y = 2 \rightarrow \quad x \simeq 5{,}2 \rightarrow \quad x = 5$ ☑