

1. For the equation $2x - 3y = 12$

a) Find the intercepts:

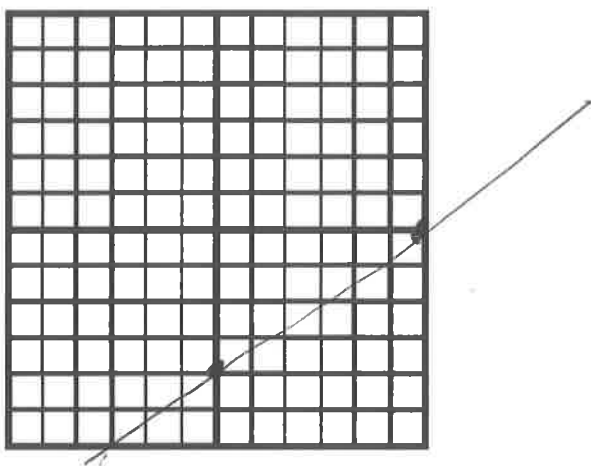
x-intercept: $(6, 0)$

let $y=0$, $2x=12$, $x=6$

y-intercept $(0, -4)$

let $x=0$, $-3y=12$, $y=-4$

b) Graph the equation



2. For the lines $y = -2x + 5$ and $4x + 2y = 7$

a) Give the slope of each line

$m_1 = -2$

$$\frac{2y}{2} = \frac{-4x}{2} + \frac{7}{2}$$

$m_2 = -2$

$$y = -2x + 7$$

b) Are the lines parallel, perpendicular, or neither?