

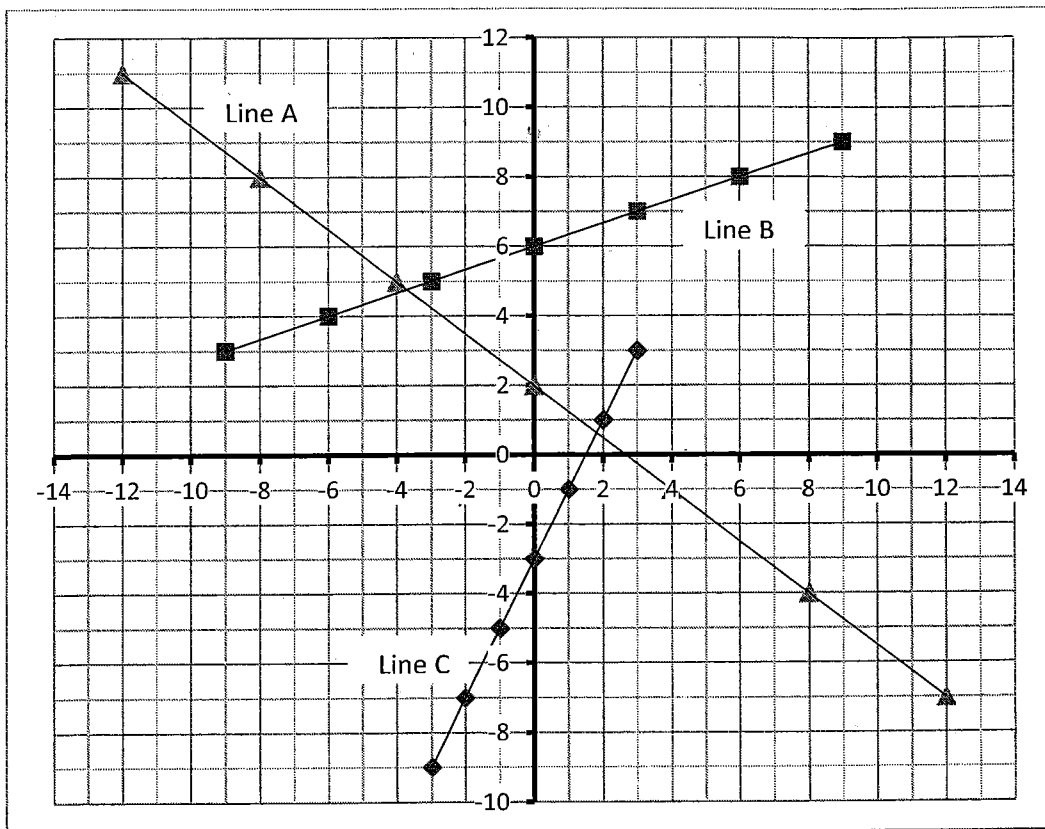
y = mx + b and Ax + By = C Quiz

1. Identify the indicated parts of the following equations: (0.5 marks per blank)

a) $y = \frac{2}{3}x - 4$ Slope = $\frac{2}{3}$ Y-intercept = -4

b) $y = 4x + 9$ Slope = $\frac{4}{1}$ Y-intercept = 9

2. Using the graph below, determine the equations for the 3 lines.



(0.5 marks for m & b, 1 mark for equation)

a) Line A $m = -\frac{3}{4}$ $b = 2$ Full equation $\rightarrow y = -\frac{3}{4}x + 2$

b) Line B $m = \frac{1}{3}$ $b = 6$ Full equation $\rightarrow y = \frac{1}{3}x + 6$

c) Line C $m = \frac{2}{1}$ $b = -3$ Full equation $\rightarrow y = 2x - 3$

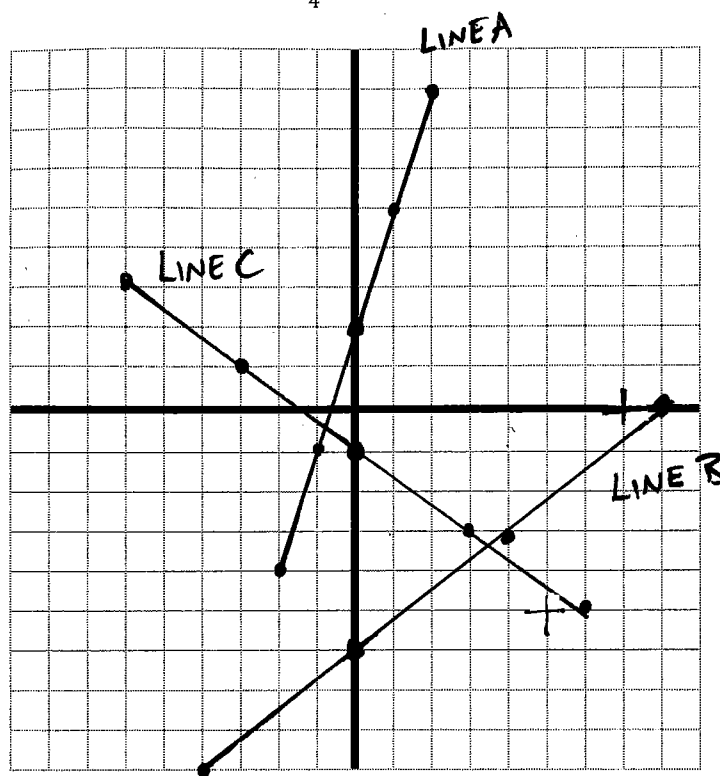
3. Plot the following equations onto the grid provided.

(1 mark per line)

a) $y = 3x + 2$

b) $y = \frac{3}{4}x - 6$

c) $y = -\frac{2}{3}x - 1$



4. Convert the following equations from Standard Form into Slope Intercept Form. Show any work that you do.

(2 marks each)

a) $3y - 9x = 12$

$$+9x \quad +9x$$

$$\frac{3y}{3} = \frac{9x + 12}{3}$$

$$y = 3x + 4$$

b) $4y - 3x = 4$

$$+3x \quad +3x$$

$$\frac{4y}{4} = \frac{3x + 4}{4}$$

$$y = \frac{3}{4}x + 1$$

c) $18x + 6y = 6$

$$-18x \quad -18x$$

$$\frac{6y}{6} = \frac{-18x + 6}{6}$$

$$y = -3x + 1$$

d) $-6y + 2x = -6$

$$-2x \quad -2x$$

$$\frac{-6y}{-6} = \frac{-2x - 6}{-6}$$

$$y = \frac{1}{3}x + 1$$