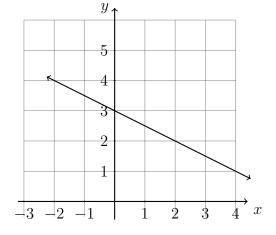
BECA / IB Math 4-Polynomial and rational functions 10 February 2022

Name:

4.11 PreQuiz: Linear equations

- 1. A linear function f is graphed below.
 - (a) Write down it's slope. m =
 - (b) Write down it's y-intercept. b =
 - (c) Write down the equation of the line.



2. Write the linear equation y + 1 = 2(x - 6) in the form y = mx + c.

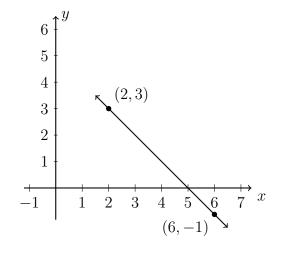
3. A line has a gradient (slope) of $-\frac{3}{2}$ and passes through the point (6,1). Find the equation of the line in the form y = mx + c.

4. A line goes through the points (2,3) and (6,-1).

[5]

(a) Find the gradient of the line.

(b) Find the equation of the line in the form y = mx + c.



5. A linear equation is desired to model a set of data.

(a) Plot the following points on the grid: (-4,2), (-3,1), (-1,2), (1,4), (3,5), (5,5)

(b) Draw a line of best fit through the data. (use a straight edge for full credit)

(c) Write down the equation of the line.

