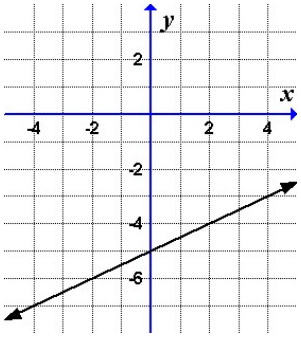
FINDING EQUATIONS OF LINES

1. For each graph below, give i) the slope, ii) the y-intercept, and iii) the equation.

a)



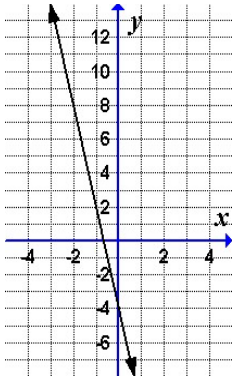
m = _____

y-int = _____

equation:

_____

b)



m = _____

y-int = _____

equation:

_____

2. Use the given information to write the equation of each line in the form $y = mx + b$.

a) Slope = -3 and y-intercept = -2 equation: _____

b) m = 4 and b = 3 equation: _____

c) parallel to $y = 3x - 5$ and y-intercept = 8 equation: _____

d) parallel to $y = 5$ and y-intercept = -3 equation: _____

3. Use the given information to write the equation of each line.

a) slope = -2, through the point (0, 0)

b) $m = \frac{1}{3}$, through the point (6, -2)

c) $m = 4$, through the point (4, 8)

4) Graph the lines from Q3 to check your work.(Upload a screen shot of the 3 graphs from Desmos-All 3 equations can be shown on the same graph)