

MAKING CONNECTIONS: FINDING X AND Y INTERCEPTS

1. Graph the line $y = 2x - 8$.

Slope: _____

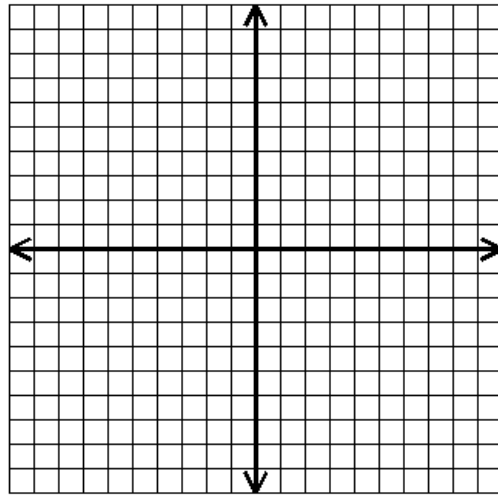
Parallel slope: _____

Perpendicular slope: _____

y-intercept: _____

x-intercept: _____

2 other points on the line: _____



2. Using your calculator, graph the line $x + 3y = 9$. Then look at the table (2nd

GRAPH

) to determine the following:

y-intercept: _____

x-intercept: _____

2 other points on the line: _____

3. Find the x and y intercepts of the line $x + 3y = 9$ without using the calculator.

DUCK and COVER!

y-intercept: _____

x-intercept: _____

There are three ways to determine the x and y intercepts given the equation of a line:

1) Graph by hand, and find where the line _____ the x and y axis.

2) Put the equation in $Y=$ and then look at the _____.

3) DUCK and COVER if the equation is in _____ form.

4. The ordered pairs in the table are contained in the graph of a linear function. What are the x- and y-intercepts?

x	y
-8	-8
-4	-6
2	-3
10	1

Equation: _____

x-intercept: _____

y-intercept: _____

5. What are the x- and y-intercepts of the line $4x + y = -12$?

y-intercept: _____

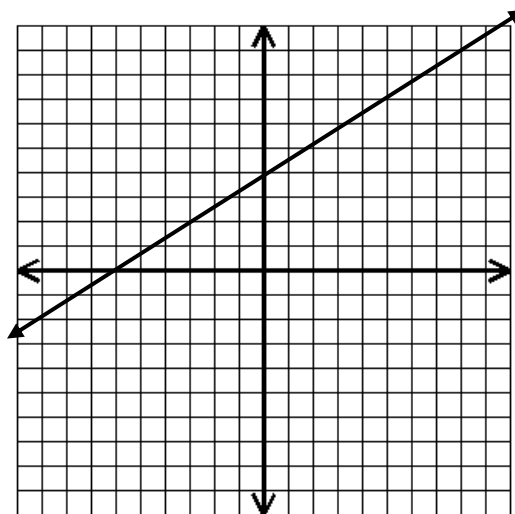
x-intercept: _____

6. What are the x and y intercepts of the function graphed below?

y-intercept: _____

x-intercept: _____

Equation: _____



7. The ordered pairs in the table are contained in the graph of a linear function. What are the x- and y-intercepts?

x	y
-12	0
-6	-3
0	-6
4	-8

x-intercept: _____

y-intercept: _____