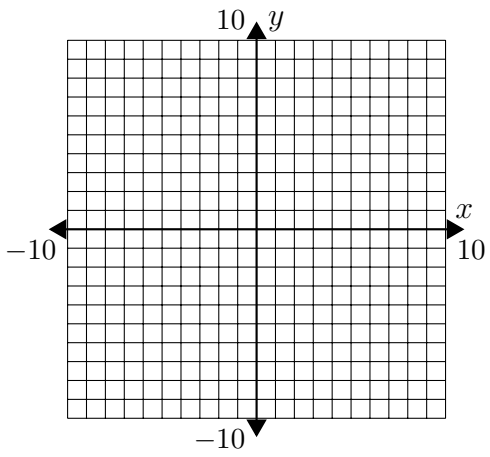
Extended Algebra 1 Name:_____

Graphing Worksheet 9

Create a table using at least 5 different (x, y) pairs. Then complete the table and graph the points in the given coordinate plane. Then graph the line.

1. $y = x$

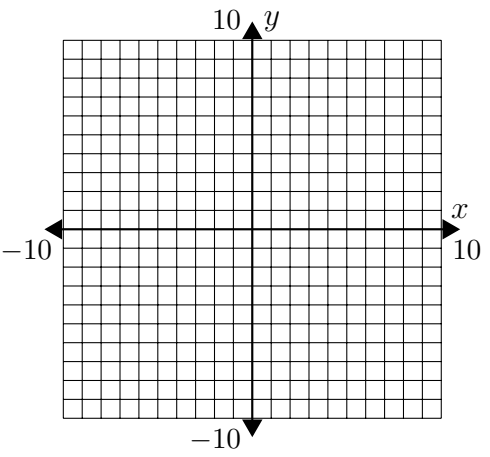
x	y



Looking at the graph above, where does the line cross the y-axis?

2. $y = x + 2$

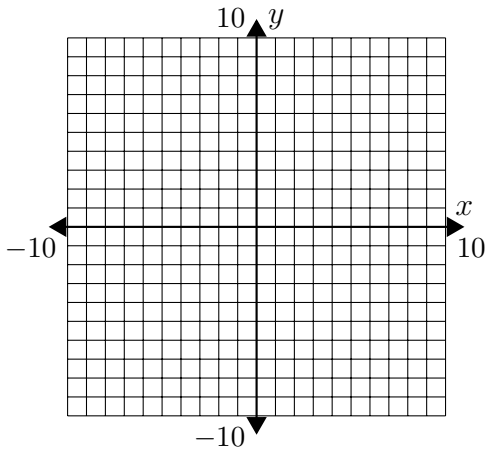
x	y



Looking at the graph above, where does the line cross the y-axis?

3. $y = x - 3$

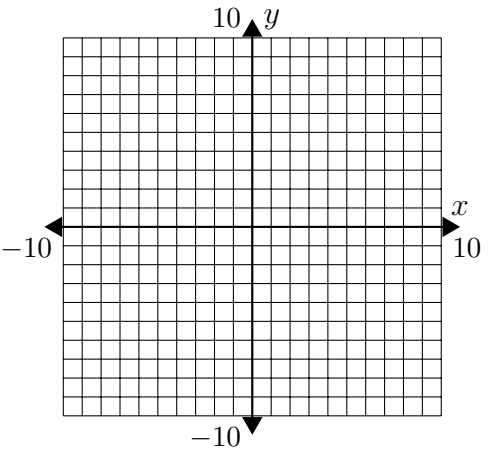
x	y



Looking at the graph above, where does the line cross the y-axis?

4. $y = 2x - 2$

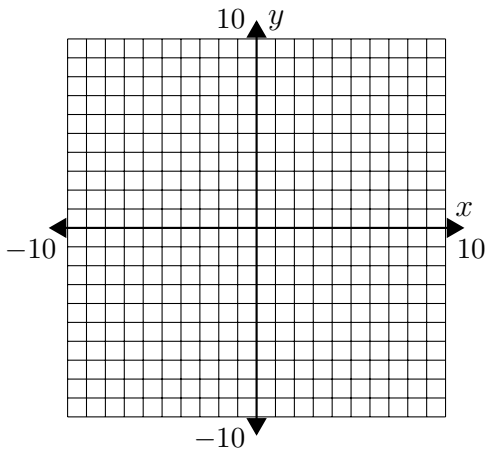
x	y



Looking at the graph above, where does the line cross the y-axis?

5. $y = 2x - 3$

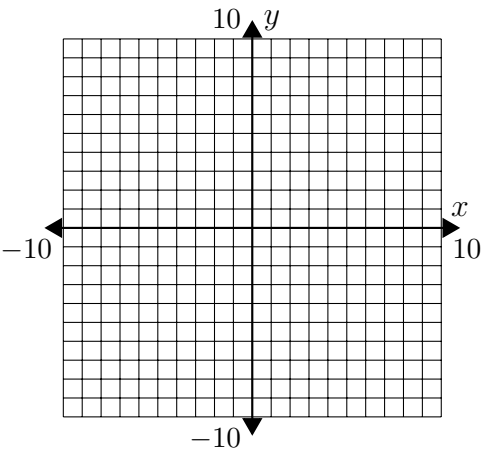
x	y



Looking at the graph above, where does the line cross the y-axis?

6. $y = 2x + 1$

x	y



Looking at the graph above, where does the line cross the y-axis?

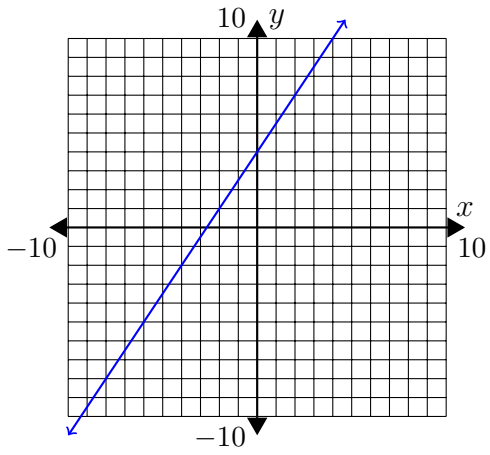
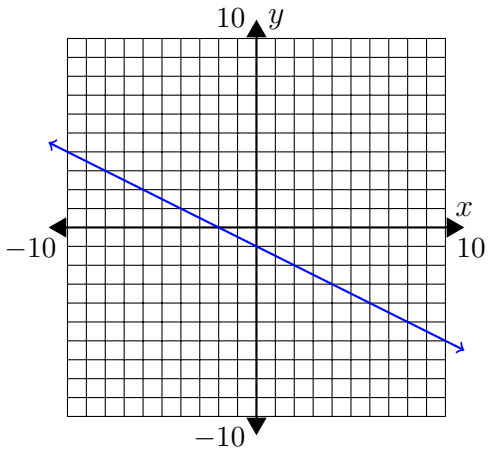
7. Write a sentence that describes the connection between the equations above and where their graphs cross the y-axis.

8. State where the graph of each of these equations crosses the y-axis.

(a) $y = 3x - 4$ **(b)** $y = -2x + 6$ **(c)** $y = -\frac{1}{2}x - 1$ **(d)** $y = -\frac{2}{3}x + 3$

9. Finish the equation for each graph:

(a) $y = \frac{3}{2}x + ____$



(b) $y = -\frac{1}{2}x + ____$