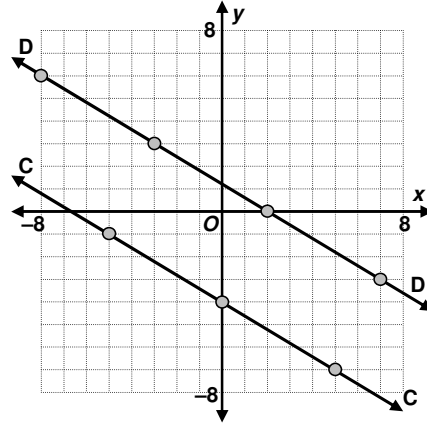
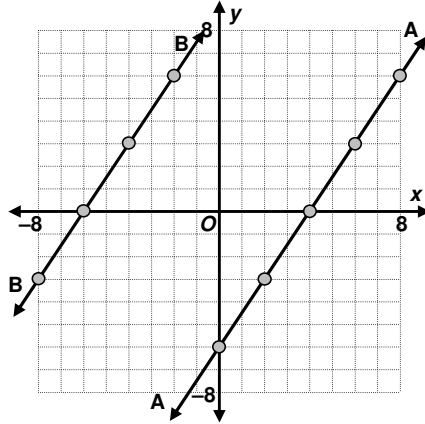


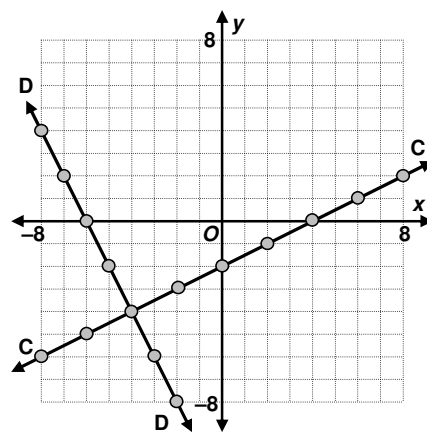
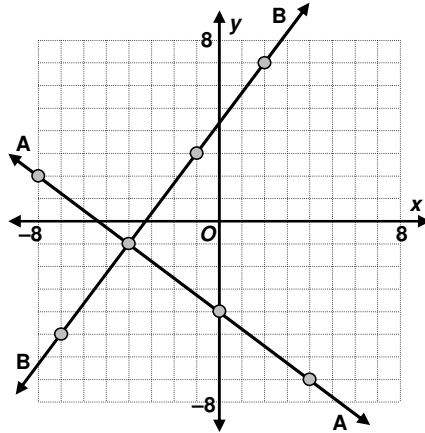
Parallel & Perpendicular Lines: Classwork

1. The pairs of lines below are parallel.
 a. Write an equation for each line. Show your work.



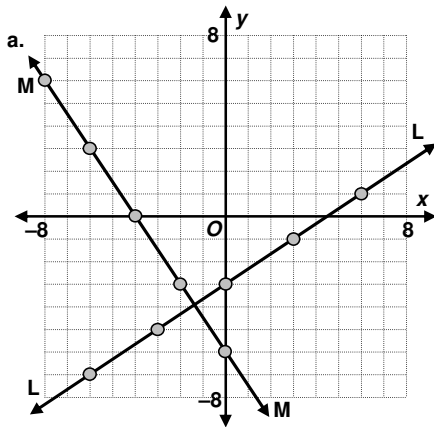
- b. What do you notice about the slope of each pair of the parallel lines?

2. The pairs of lines below are perpendicular.
 a. Write an equation for each line. Show your work.



- b. What do you notice about the slope of each pair of the perpendicular lines?

3. For each graph, complete a table and then write an equation. Show your work.

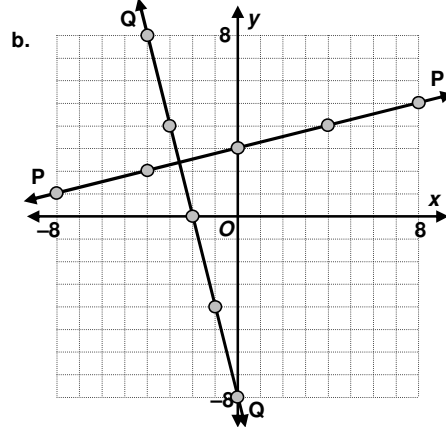


Graph L

| x | y |
|----|---|
| -6 | |
| -3 | |
| 0 | |
| 3 | |
| 6 | |

Graph M

| x | y |
|----|---|
| -8 | |
| -6 | |
| -4 | |
| -2 | |
| 0 | |



Graph P

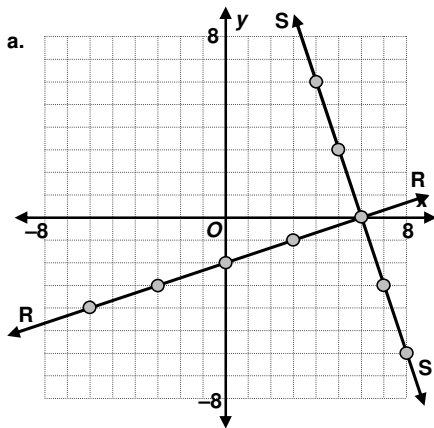
| x | y |
|----|---|
| -8 | |
| -4 | |
| 0 | |
| 4 | |
| 8 | |

Graph Q

| x | y |
|----|---|
| -4 | |
| -3 | |
| -2 | |
| -1 | |
| 0 | |

c. How does the slope of a line appear in a table? Explain. (Hint: look at your work above)

4. For each line, complete a table and then write an equation. Show your work.

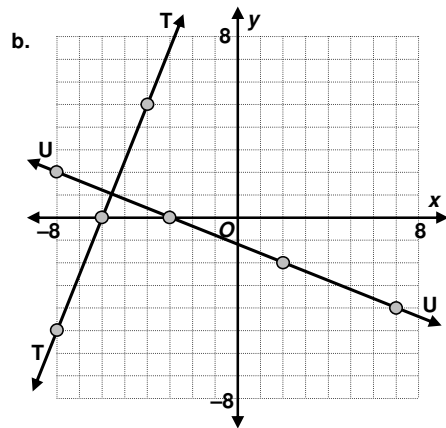


Graph R

| x | y |
|----|---|
| -6 | |
| -3 | |
| 0 | |
| 3 | |
| 6 | |

Graph S

| x | y |
|---|---|
| 4 | |
| 5 | |
| 6 | |
| 7 | |
| 8 | |



Graph T

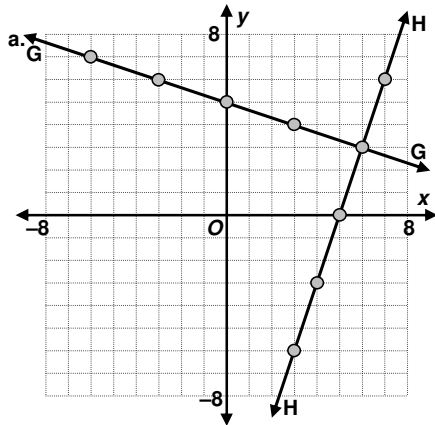
| x | y |
|----|---|
| -8 | |
| -6 | |
| -4 | |
| -2 | |
| 0 | |

Graph U

| x | y |
|----|---|
| -8 | |
| -3 | |
| 2 | |
| 7 | |

Parallel & Perpendicular Lines: Homework

5. For each graph, complete a table and then write an equation. Show your work.

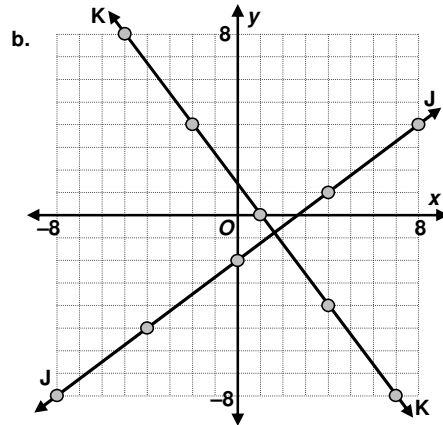


Graph G

| x | y |
|----|---|
| -6 | |
| -3 | |
| 0 | |
| 3 | |
| 6 | |

Graph H

| x | y |
|---|---|
| 3 | |
| 4 | |
| 5 | |
| 6 | |
| 7 | |



Graph J

| x | y |
|----|---|
| -8 | |
| -4 | |
| 0 | |
| 4 | |
| 8 | |

Graph K

| x | y |
|----|---|
| -5 | |
| -2 | |
| 1 | |
| 4 | |
| 7 | |

6. Liana is planning to bake several loaves of banana bread! She currently only has 7 bananas, so she will need to buy several bunches at the grocery store. Each bunch is made up of 6 bananas.

a. Write an equation for the total number of bananas she will have t after any number of bunches that she buys n .

b. How many bananas would she have if she bought 3 bunches? Use your equation to show how you know. Show your work.

c. She determines that she will need 50 bananas. How many bunches will she have to buy? Use your equation to show how you know. Show your algebra work.