

Algebra I

5.2 Worksheet #2

Graphs of Linear Functions

NAME: _____

DATE: _____ HOUR: _____

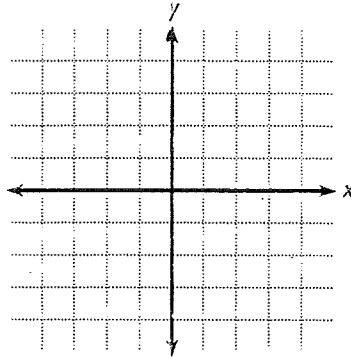
Complete a table of values for each equation. Graph a line for each pair of equations on the same axes. Describe what is the same and what is different for each pair of lines.

1. $y = \frac{1}{2}x + 1$

$y = \frac{1}{2}x - 1$

x	y
-4	
-2	
0	
2	
4	

x	y
-4	
-2	
0	
2	
4	



same:

slope

different:

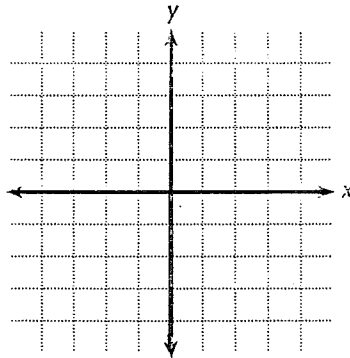
y-intercept

2. $y = 2x + 1$

$y = -2x + 1$

x	y
-2	
-1	
0	
1	
2	

x	y
-2	
-1	
0	
1	
2	



same:

y-intercept

different:

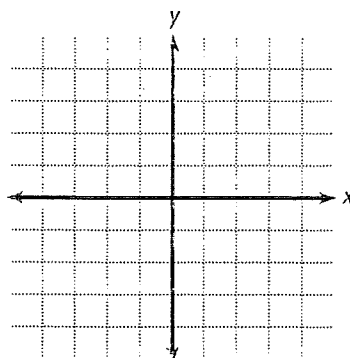
slope

3. $y = 2x + 1$

$y = 2x - 1$

x	y
-2	
-1	
0	
1	
2	

x	y
-2	
-1	
0	
1	
2	



same:

slope

different:

y-intercept

Match each equation with its graph and explain how you decided on each match.

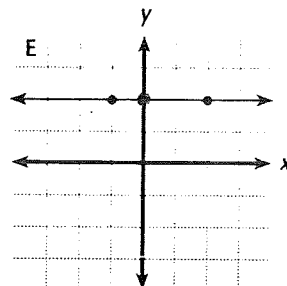
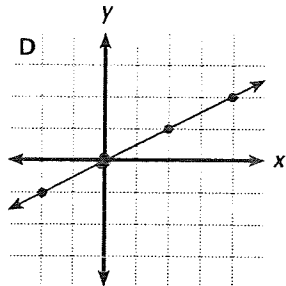
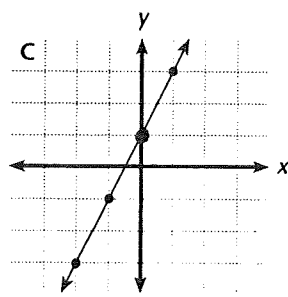
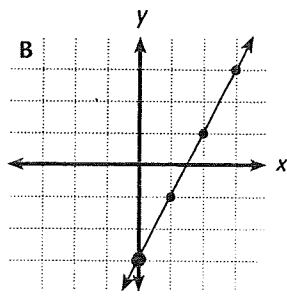
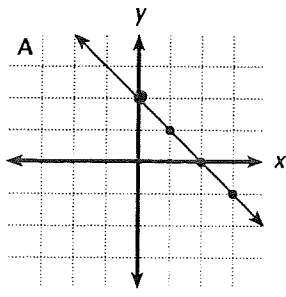
1. $y = 2x - 3$ _____

2. $y = 2$ $y = 0x + 2$ _____

3. $y = -x + 2$ _____

4. $y = 2x + 1$ _____

5. $y = \frac{1}{2}x$ _____



6. Given the following lines, find their slope.

- Line \overleftrightarrow{AB} $\frac{\text{Rise}}{\text{Run}} =$
- Line \overleftrightarrow{CD} $\frac{\text{Rise}}{\text{Run}} =$
- Line \overleftrightarrow{DE} $\frac{\text{Rise}}{\text{Run}} =$
- Line \overleftrightarrow{EA} $\frac{\text{Rise}}{\text{Run}} =$
- Line \overleftrightarrow{HI} $\frac{\text{Rise}}{\text{Run}} =$
- Line \overleftrightarrow{FG} $\frac{\text{Rise}}{\text{Run}} =$

