

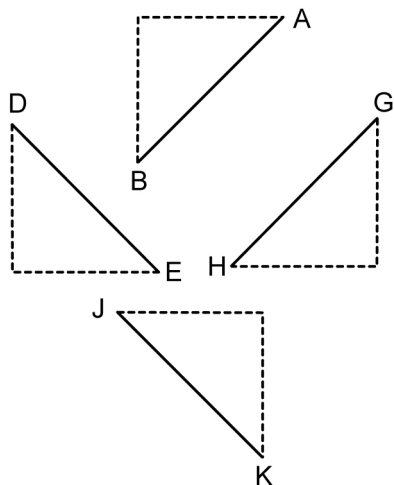
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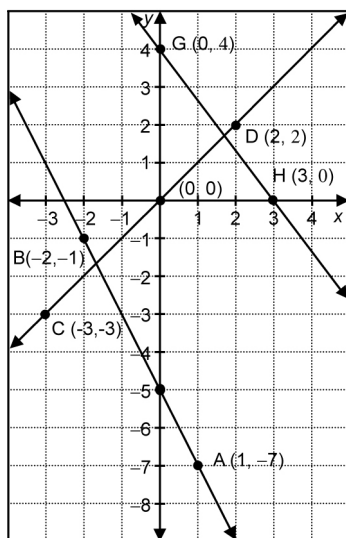
**BLM 3.3.1**

## Practice: Properties of Slopes of Lines

1. Which line segments have a positive slope?  
Which line segments have a negative slope?



2. State whether the slope of each line is negative, positive, or zero.  
 a)  $y = x + 9$       b)  $y = -2x + 1$   
 c)  $y = \frac{1}{4}x - 0.1$       d)  $y = 0.5$
3. For each line on the graph, indicate which of the equations listed below represents the line.



- a)  $y = -\frac{4}{3}x + 4$       b)  $y = -2x - 5$       c)  $y = x$

4. Write an equation of a line that has a steeper slope than the given line.

a)  $y = 4x + 1$       b)  $y = -5x - 2$   
 c)  $y = x + 0.3$       d)  $y = -\frac{1}{3}x + 9$

5. Write an equation of a line that is less steep than the given line.

a)  $y = -7x$       b)  $y = -x + 4$   
 c)  $y = x - 0.6$       d)  $y = x$

6. State whether the lines in each pair are parallel.

a)  $y = \frac{1}{3}x$  and  $y = -\frac{1}{3}x$   
 b)  $y = 5x$  and  $y = 2x$   
 c)  $y = x + 2$  and  $y = x - 2$   
 d)  $y = x - 3$  and  $y = -x - 3$

7. Write the equation of a line that is parallel to each line.

a)  $y = 8 - x$       b)  $y = 0$   
 c)  $y = x + 12$       d)  $y = 0.5x + 1$

8. Determine whether the lines represented by each pair of tables of values are parallel.

a)

x	y
0	-3
1	-2
2	-1
3	0

x	y
0	0
1	-1
2	-2
3	-3

b)

x	y
0	5
1	5
2	5
3	5

x	y
0	-1
1	-1
2	-1
3	-1

9. For each pair of line segments, determine if AB is parallel to CD.

a) A(-5, 5), B(5, 5) and C(-5, 4), D(5, 4).  
 b) A(-10, 10), B(0, 0) and C(0, 0), D(10, 10).  
 c) A(-2, -3), B(-4, -6) and C(4, 6), D(8, 12).