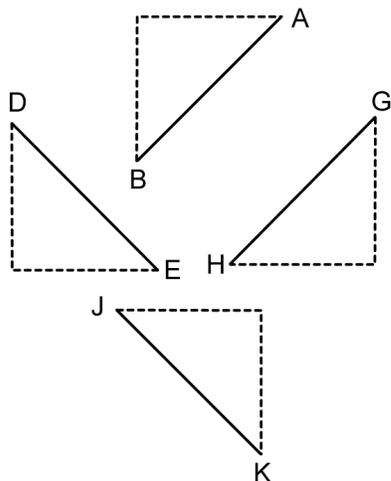


Practice: Properties of Slopes of Lines

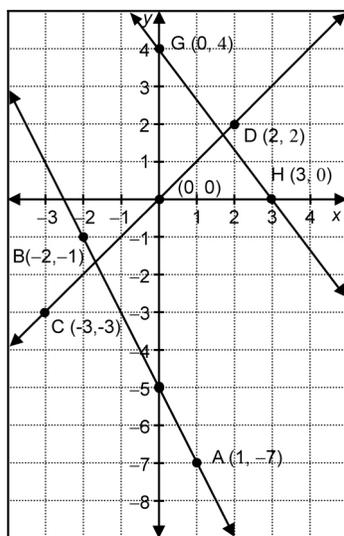
1. Which line segments have a positive slope?
Which line segments have a negative slope?



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).