

**LESSON**  
**12-2 Practice A**  
**Slope of a Line**

Find the slope of the line that passes through each pair of points.

1.  $(1, 0), (2, 4)$

\_\_\_\_\_

2.  $(6, 2), (2, -2)$

\_\_\_\_\_

3.  $(-1, 1), (4, 4)$

\_\_\_\_\_

4.  $(-7, 4), (2, 1)$

\_\_\_\_\_

5.  $(5, -3), (-2, -3)$

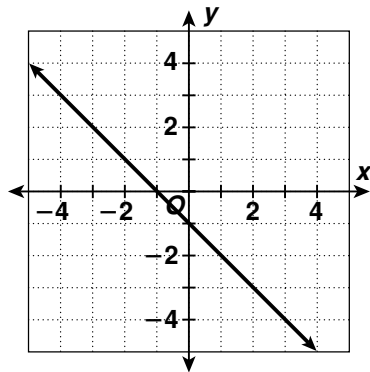
\_\_\_\_\_

6.  $(-3, 2), (2, 7)$

\_\_\_\_\_

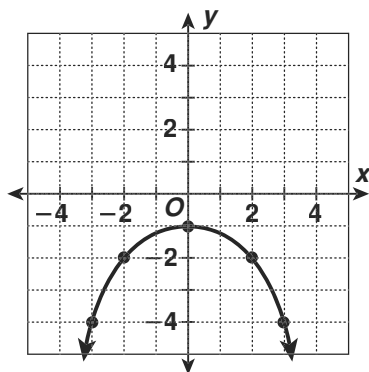
Determine whether each graph shows a constant or variable rate of change. Explain your reasoning.

7.



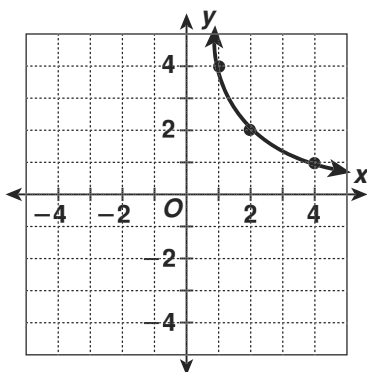
\_\_\_\_\_  
\_\_\_\_\_

8.



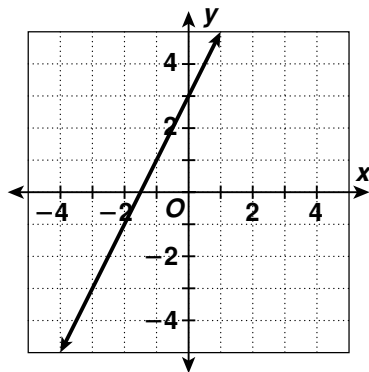
\_\_\_\_\_  
\_\_\_\_\_

9.



\_\_\_\_\_  
\_\_\_\_\_

10.

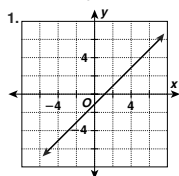


\_\_\_\_\_  
\_\_\_\_\_

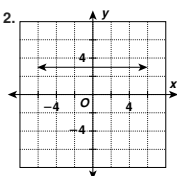
# LESSON 12-1 Puzzles, Twisters & Teasers

## 12-1 Straight and Narrow?

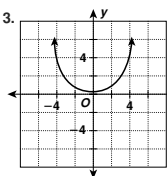
Decide whether each graph is linear or nonlinear. Circle the letter above your answer. Use the letters to solve the riddle.



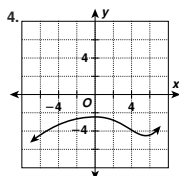
1. linear nonlinear



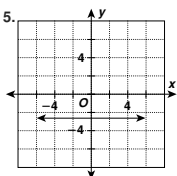
2. linear nonlinear



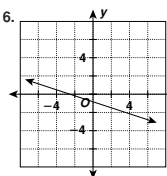
3. linear nonlinear



4. linear nonlinear



5. linear nonlinear



6. linear nonlinear

What do you call a dancing sheep?

A linear B nonlinear C linear D nonlinear E linear F nonlinear G linear H nonlinear I linear J nonlinear K linear L nonlinear M linear N nonlinear O linear P nonlinear Q linear R nonlinear S linear T nonlinear U linear V nonlinear W linear X nonlinear Y linear Z nonlinear



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# LESSON 12-2 Practice A

## 12-2 Slope of a Line

Find the slope of the line that passes through each pair of points.

1. (1, 0), (2, 4)

2. (6, 2), (2, -2)

3. (-1, 1), (4, 4)

4

1

3/5

4. (-7, 4), (2, 1)

5. (5, -3), (-2, -3)

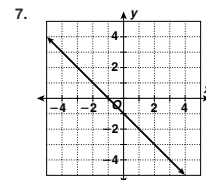
6. (-3, 2), (2, 7)

-1/3

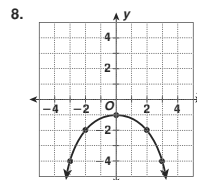
0

1

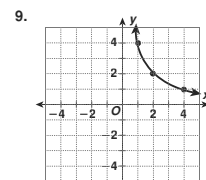
Determine whether each graph shows a constant or variable rate of change. Explain your reasoning.



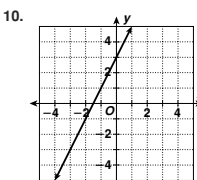
constant; The slope between any two points is always the same.



variable; The slope varies from point to point.



variable; The slope varies from point to point.



constant; The slope between any two points is always the same.

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# LESSON 12-2 Practice B

## 12-2 Slope of a Line

Find the slope of the line that passes through each pair of points.

1. (-2, -8), (1, 4)

2. (-2, 0), (0, 4)

3. (0, 4), (4, 4)

4. (3, -6), (2, -4)

4

2

0

-2

5. (-3, 4), (3, -4)

6. (3, 0), (0, -6)

7. (3, 2), (3, -2)

8. (-4, 4), (3, -1)

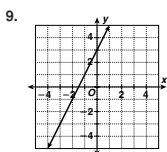
-4/3

2

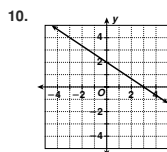
undefined

-5/7

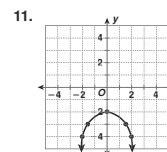
Determine whether each graph shows a constant or variable rate of change. Explain your reasoning.



constant; The slope between any two points is always the same.



constant; The slope between any two points is always the same.



variable; The slope is positive in Quadrant III and negative in Quadrant IV.

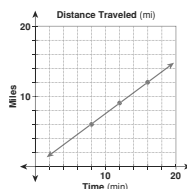
12. The table shows the distance Ms. Long had traveled as she went to the beach. Use the data to make a graph. Find the slope of the line and explain what it shows.

The slope is  $\frac{3}{4}$ , which means

that for every 4 minutes Ms. Long drives, she travels 3 miles.

She is driving 45 mph.

Time (min)	Distance (mi)
8	6
12	9
16	12
20	15



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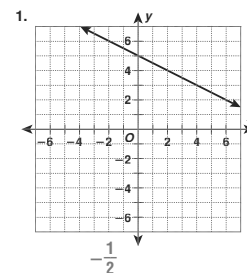
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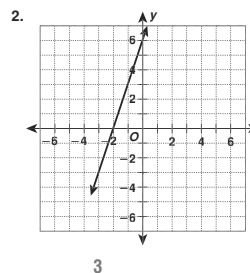
# LESSON 12-2 Practice C

## 12-2 Slope of a Line

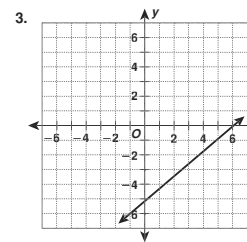
For exercises 1-4, use the graph to find the slope of the line.



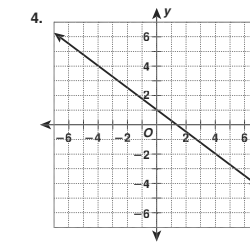
-1/2



3



4/5



-3/4

5. If a quadrilateral has vertices A(-2, 2), B(2, 3), C(3, -4), and D(-3, -2), find the slope of AB, BC, CD, and DA.

slope AB:  $\frac{1}{4}$ ; slope BC: -7;

slope CD:  $-\frac{1}{3}$ ; slope DA: 4

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