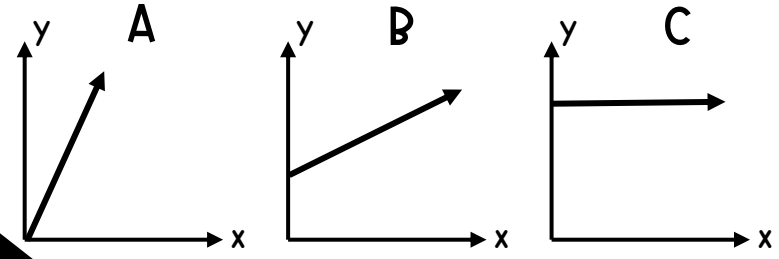
Which graph has the greatest rate of change? How do you know?



1

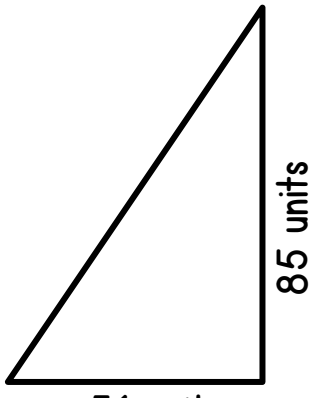
Observe the line segments in the word below:

MATH

List the number of line segments that have a positive slope, negative slope, zero slope and undefined slope.

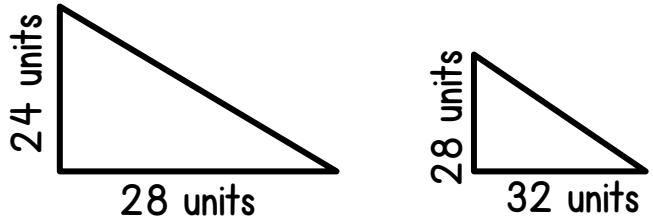
2

Determine whether the triangle below could lie on a line that has a slope of $\frac{5}{3}$.



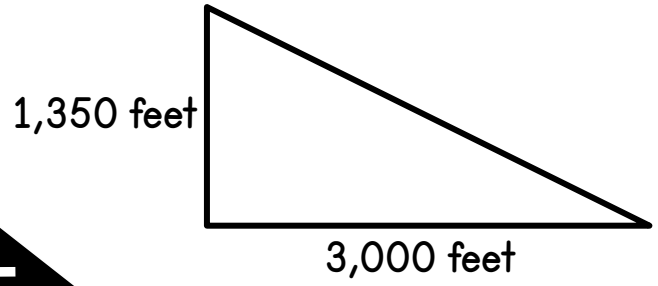
3

Determine whether the two triangles below could lie on the same graphed line. Explain your reasoning.



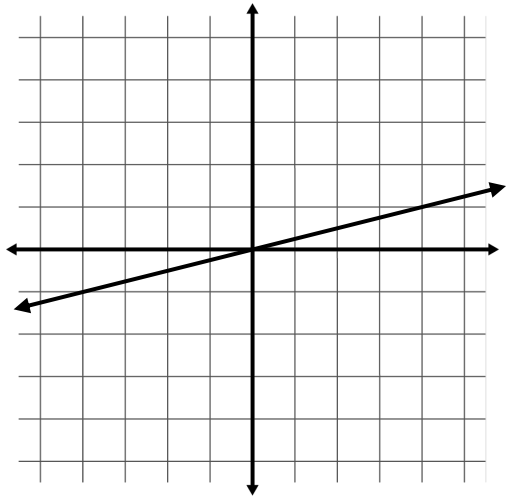
4

Hank went hiking, and the vertical and horizontal distance he covered is shown below. Find the slope of the path that he hiked in simplest form.



5

Find the slope of the line shown below.



6

Find the slope represented in the table below.

X	-10	-5	0	5	10
Y	55	20	-15	-50	-85

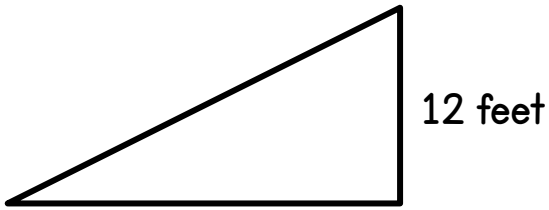
7

Find the slope of the line that would pass through the ordered pairs below.

(18, 3) and (24, 4)

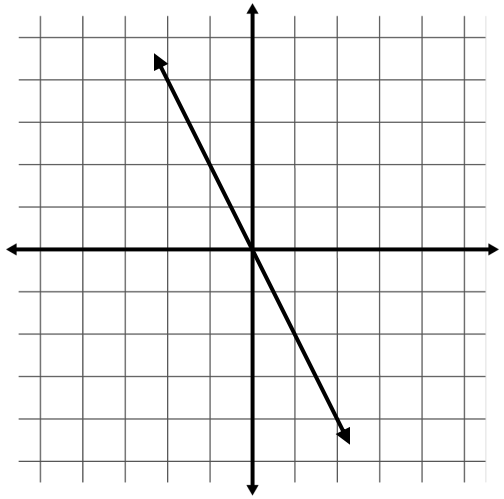
8

A waterpark is designing an incline for guests to boogie board on as shown below. Find the slope of the incline in simplest form.



9

Find the slope of the line shown below.



10

Find the slope represented in the table below.

X	Y
-4	3
-2	4.5
0	6
2	7.5

11

Find the slope of the line that would pass through the ordered pairs below.

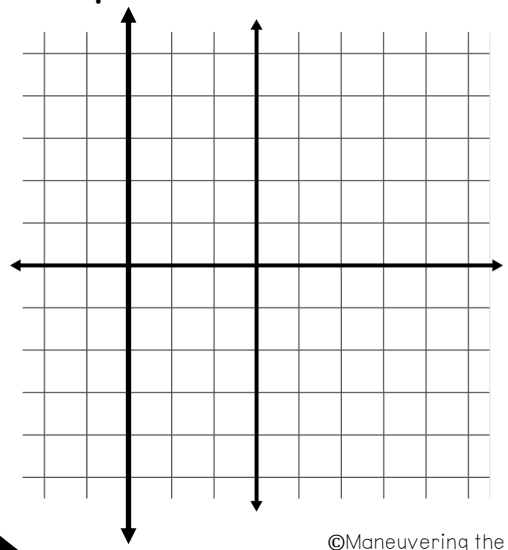
(-4, -52) and (-1, -22)

12

An ice cream shop charges customers a set amount for one scoop of ice cream, plus a charge per topping. If two toppings would cost a total of $3.99, and 4 toppings would cost a total of $4.99, what is the rate per topping?

13

Find the slope of the line shown below.



14

Find the slope represented in the table below.

X	-6	-3	0	3	6
Y	5	5	5	5	5

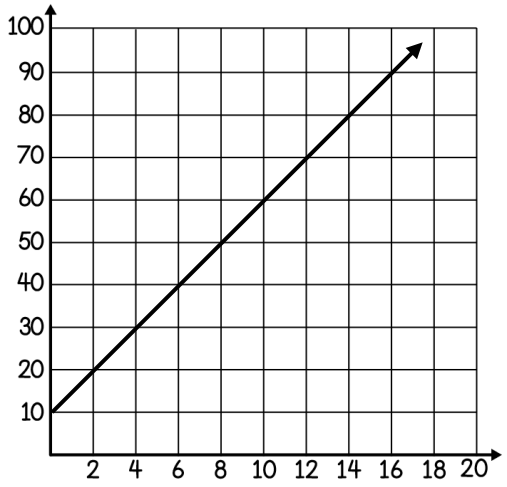
15

Find the slope of the line that would pass through the ordered pairs below.

(-7, 9) and (14, -18)

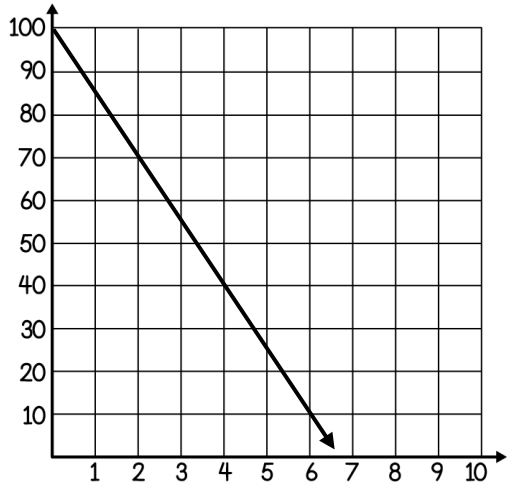
16

Find the slope represented in the graph below.



17

Find the slope of the line shown below.



18

Find the slope represented in the table below.

X	Y
2	44
5	110
7	154
12	264

19

Find the slope of the line that would pass through the ordered pairs below.

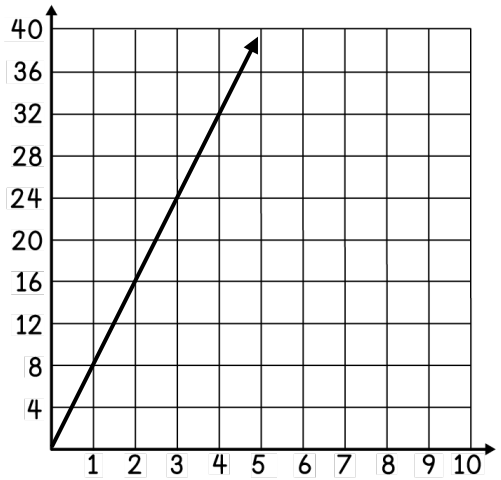
(8, 6) and (16, 11)

20

Bryan needs to finish a book for school. After 2 weeks, he has read 45 pages, and after 6 weeks, he has read 135 pages. Find the rate of pages per week that Bryan is reading.

21

Find the slope of the line shown below.



22

Find the slope represented in the table below.

X	2	4	6	8	10
Y	-5	-10	-15	-20	-25

23

Find the slope of the line that would pass through the ordered pairs below.

(13, 7) and (22, 5)

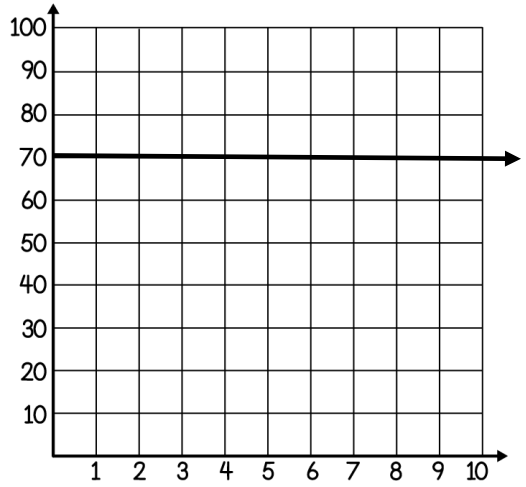
24

Find the slope of the line that would pass through the ordered pairs below.

(-4, 17) and (12, -11)

25

Find the slope of the line shown below.



26

Find the slope represented in the table below.

X	Y
0	2
1	5.7
2	9.4
3	13.1

27

Find the slope of the line that would pass through the ordered pairs below.

(1, 18) and (4, 51)

28

Unit: Linear Relationships
Task Cards

Name_____

Date _____ Pd ____

SLOPE AND RATE OF CHANGE TASK CARDS

Show your work for each problem in the correct box.

1	2	3	4
5	6	7	8
9	10	11	12

13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28

Unit: Linear Relationships
Task Cards

Name Answer Key

Date _____ Pd ____

SLOPE AND RATE OF CHANGE TASK CARDS

Show your work for each problem in the correct box.

1 Graph A; it is the steepest and would have the greatest ratio of rise over run.	**2** Positive: 2 Negative: 2 Zero: 3 Undefined: 5	**3** Yes; the ratio of rise over run simplifies to $\frac{5}{3}$.	**4** No; the ratios of rise over run are not the same. The triangles are not similar triangles.
5 $\frac{9}{20}$	**6** $\frac{1}{4}$	**7** -7	**8** $\frac{1}{6}$
9 $\frac{2}{7}$	**10** -2	**11** $\frac{3}{4}$	**12** 10

13 $0.50 per topping	**14** undefined	**15** zero	**16** $-\frac{q}{7}$
17 5	**18** -15	**19** 22	**20** $\frac{5}{8}$
21 22.5 pages per week	**22** 8	**23** $-\frac{5}{2}$	**24** $-\frac{2}{9}$
25 $-\frac{7}{4}$	**26** zero	**27** $\frac{37}{10}$ or 3.7	**28** 11