

Unit Test - Slope and Linear Graphs

Multiple Choice (80 points, 5 points each)

Identify the choice that best completes the statement or answers the question.

1. Find the slope of the line that passes through the points (2,7) and (2,-6).

A. 1
B. 0
C. undefined
D. -1

2. Find the slope of the line that passes through the points (4,10) and (2,10).

A. 1
B. 0
C. undefined
D. -1

3. Find the slope of the line that contains (10, -1) and (-8, 6).

A. $\frac{2}{5}$
B. $-\frac{7}{18}$
C. $-\frac{18}{7}$
D. $\frac{5}{2}$

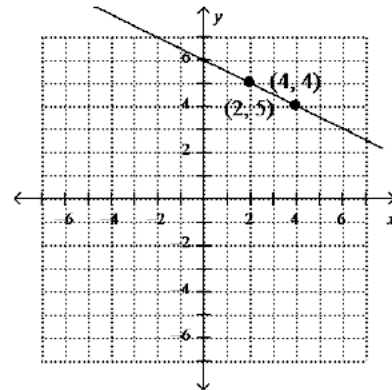
4. Find the slope of the line that contains (2, -10) and (-4, 2).

A. $\frac{1}{4}$
B. -2
C. 4
D. $-\frac{1}{2}$

5. Find the slope of the line that contains (-2, -2) and (-10, -9).

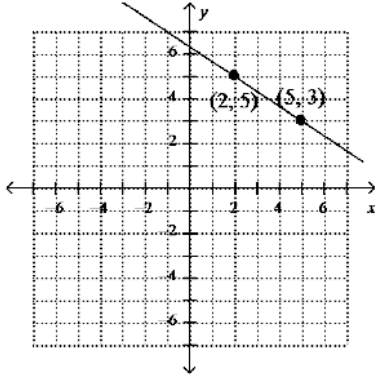
A. $\frac{8}{7}$
B. $\frac{11}{12}$
C. $\frac{12}{11}$
D. $\frac{7}{8}$

6. Find the slope of the line.

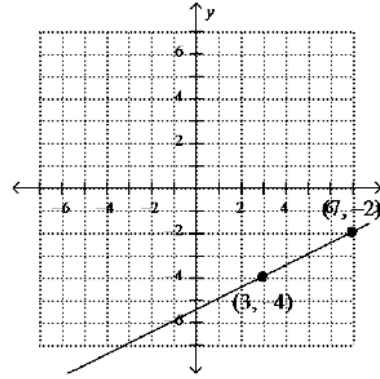


A. 1
B. $\frac{1}{2}$
C. -2
D. $-\frac{1}{2}$

7. Find the slope of the line.

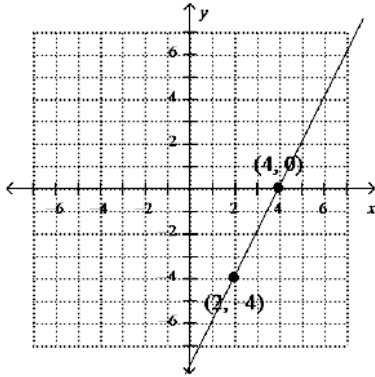


- A. $\frac{3}{5}$
- B. $\frac{2}{3}$
- C. $-\frac{2}{3}$
- D. $-\frac{3}{2}$



- A. $-\frac{2}{7}$
- B. $\frac{1}{2}$
- C. $-\frac{1}{2}$
- D. 2

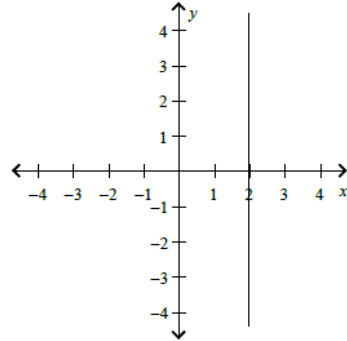
8. Find the slope of the line.



- A. 0
- B. -2
- C. 2
- D. $\frac{1}{2}$

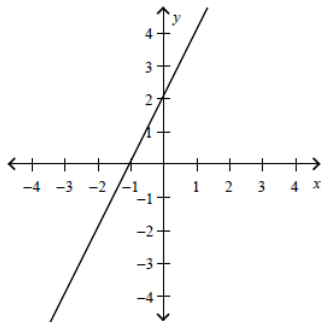
9. Find the slope of the line.

10. Tell whether the slope of the line is positive, negative, zero, or undefined.

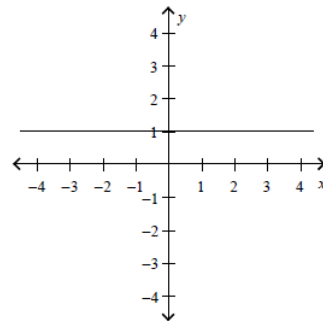


- A. negative
- B. positive
- C. undefined
- D. zero

11. Tell whether the slope of the line is positive, negative, zero, or undefined.

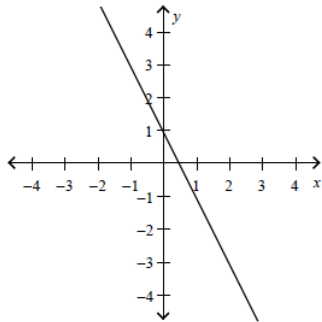


- A. undefined
- B. negative
- C. positive
- D. zero



- A. undefined
- B. negative
- C. positive
- D. zero

12. Tell whether the slope of the line is positive, negative, zero, or undefined.

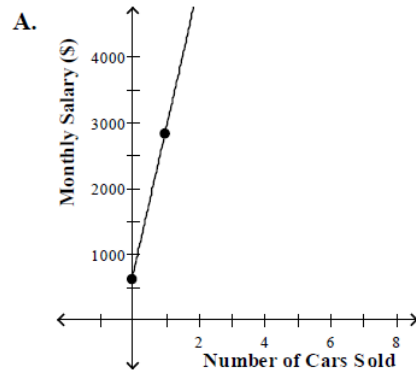


- A. positive
- B. zero
- C. negative
- D. undefined

13. Tell whether the slope of the line is positive, negative, zero, or undefined.

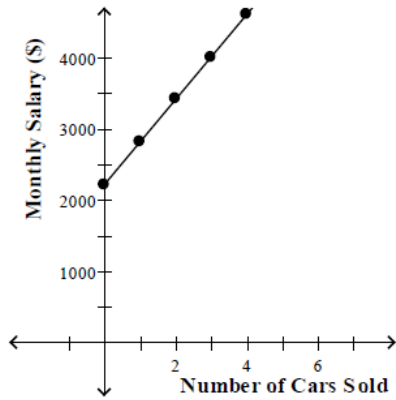
14. Thomas is a car salesman. The table shows the salary that Thomas earns for the number of cars he sells. Use the data to make a graph. Then, find the slope of the line and explain what it shows.

Number of Cars Sold	Monthly Salary Earned
0	\$2200
1	\$2800
2	\$3400
3	\$4000
4	\$4600



The slope of the line is 2200. This means that for every car Thomas sells, he earns \$2200.

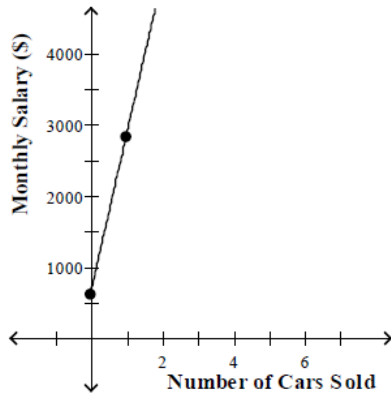
B.



The

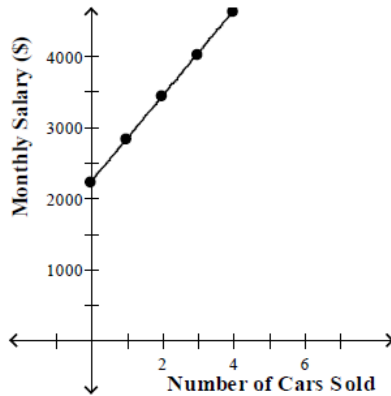
slope of the line is 600. This means that for every car Thomas sells, he earns \$600.

C.



The slope of the line is 600. This means that for every car Thomas sells, he earns \$600.

D.



The slope of the line is 2200. This means that for every car Thomas sells, he earns \$2200.

15. Find the slope of the table below.

x	y
-3	10
-1	4
1	-2

- A. -6
- B. -3
- C. 6
- D. 3

16. Find the slope of the table below.

x	y
-3	-2
-1	0
1	2

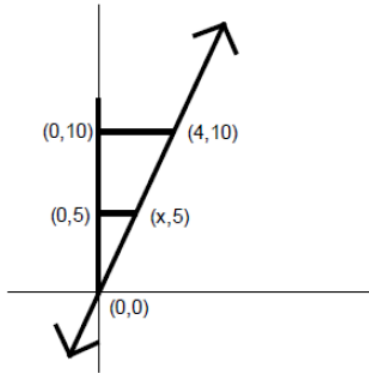
- A. -2
- B. 1
- C. -1
- D. 2

17. Find the slope of the table below.

x	y
-10	-1
0	1
10	3

- A. 5
- B. 1
- C. $\frac{1}{5}$
- D. 10

18. What is the value of x?



- A. 1
- B. 2
- C. 3
- D. 3.5

19. Which of the following is the STEEPEST slope?

- A. $m = -7$
- B. $m = \frac{1}{10}$
- C. $m = 5$
- D. $m = 1$

20. Which of the following is the STEEPEST slope?

- A. $m = 100$

Short Answer

- 22. Describe the slope of a horizontal line. Explain your answer. (5 points)

- 23. Describe the slope of a vertical line. Explain your answer. (5 points)

- B. $m = \frac{1}{5}$
- C. $m = -3$
- D. $m = 1$

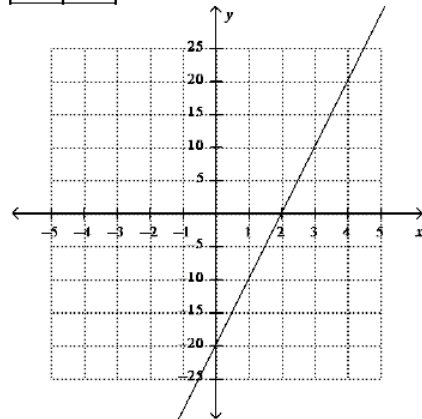
21. Which of the following has the STEEPEST slope

- A. A line containing $(-1,2)$ and $(4,102)$
- B. Matt reads 27 books in 3 hours.

C.

x	y
0	5
2	35
4	65

D.



Answers

MULTIPLE CHOICE

1. C
2. B
3. B
4. B
5. D
6. D
7. C
8. C
9. B
10. C
11. C
12. C
13. D
14. B
15. B
16. B
17. C
18. B
19. A
20. A
21. A

SHORT ANSWER

22. The slope of a horizontal line is 0 because horizontal lines have no RISE. Slope is rise over run and the slope of a horizontal line will therefore always be 0 divided by some number. 0 divided by any number is always 0.
23. The slope of a vertical line is undefined. This is because vertical lines have no RUN. Slope is rise over run and any number divided by 0 is undefined.