

Student: _____
Date: _____
Time: _____

Instructor: courtney trabue
Course: GMC LSS Mathematics
Book: Martin-Gay: Developmental
Mathematics

Assignment: MAT 097 Slope and Rate of
Change (10.4)

1. Find the slope of the line that goes through the given points.

(9, 2) and (7, 8)

$m = \square$

(Simplify your answer. Type an integer or a fraction. Type N if the slope is undefined.)

2. Find the slope of the line that passes through the given points.

(-2, 5) and (2, 2)

The slope is \square .

(Type an integer or a simplified fraction. Type N if the slope is undefined.)

3. Find the slope of the line that passes through the given points.

(2, 2) and (-2, 2)

The slope is \square .

(Type an integer or a simplified fraction. Type N if the slope is undefined.)

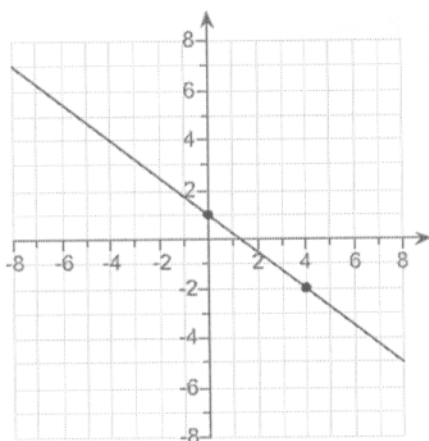
4. Find the slope of the line that passes through the given points.

(3, 3) and (3, 8)

The slope is \square .

(Type an integer or a simplified fraction. Type N if the slope is undefined.)

5. Find the slope of the line if it exists.



$m = \square$

(Simplify your answer. Type an integer or a fraction. Type N if the slope is undefined.)

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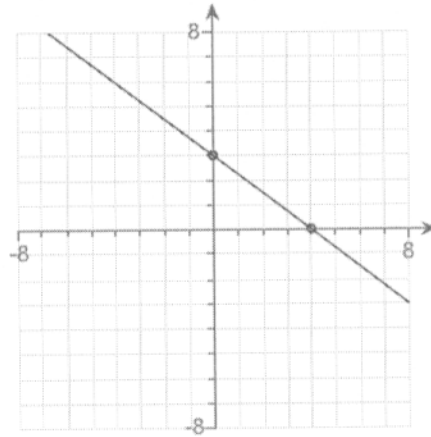
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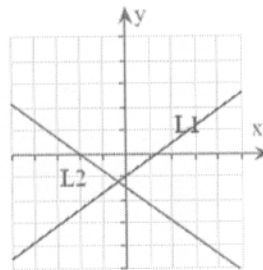
6. Find the slope of the line shown on the graph to the right.

The slope of the line is .

(Simplify your answer. Type an integer or a fraction. Type N if the slope is undefined.)



7. Given the two lines L1 and L2 graphed on the same axes, decide whether L1 or L2 has the greater slope.



Choose the line with the greater slope below.

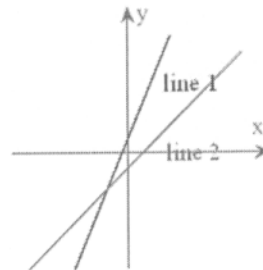
- L1
 L2
 Cannot be determined

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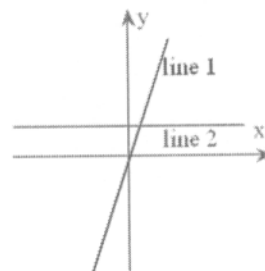
8. For the graph, determine which line has the greater slope.



Choose the correct answer below.

- A. line 1
 B. line 2
 C. cannot be determined

9. For the graph, determine which line has the greater slope.



Choose the correct answer below.

- A. cannot be determined
 B. line 1
 C. line 2

10. Find the slope of the line.

$$y = -3x + 8$$

The slope is .

(Type an integer or a simplified fraction. Type N if the slope is undefined.)

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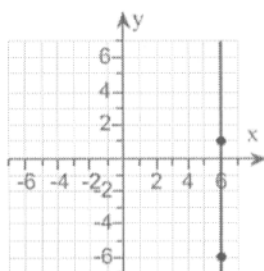
11. Find the slope of the line.

$$y = -0.7x - 6.4$$

The slope is .

(Type an integer or a decimal. Type N if the slope is undefined.)

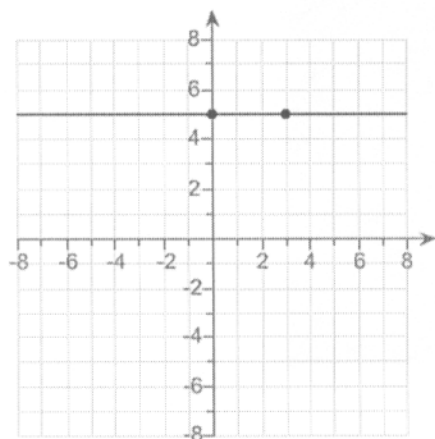
12. Find the slope of the line.



The slope is .

(Type an integer or a simplified fraction. Type N if the slope is undefined.)

13. Find the slope of the line if it exists.



$m =$

(Simplify your answer. Type an integer or a fraction. Type N if the slope is undefined.)

14. Find the slope of the following line.

$$4x - 5y = 20$$

The slope is .

(Simplify your answer. Type an integer or a fraction. Type N if the slope is undefined.)

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15. Find the slope of the line $x = 1$.

$$m = \square$$

(Simplify your answer. Type an integer or a fraction. Type N if the slope is undefined.)

16. Find the slope of the line $y = 1$.

$$m = \square$$

(Simplify your answer. Type an integer or a fraction. Type N if the slope is undefined.)

17. Find the slope of the line.

$$-8x - 3y = 1$$

The slope is \square .

(Type an integer or a simplified fraction. Type N if the slope is undefined.)

18. Find the slope of the line.

$$20x - 5y = 6.9$$

The slope is \square .

(Type an integer or a simplified fraction. Type N if the slope is undefined.)

19. Determine whether the pair of lines are parallel, perpendicular, or neither.

$$y = \frac{1}{5}x + 9$$

$$y = -\frac{1}{5}x$$

Choose the correct answer below.

- A. Parallel
 B. Neither
 C. Perpendicular

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20. Determine whether the pair of lines are parallel, perpendicular, or neither.

$$7x = 3y + 3$$
$$- 14x + 6y = 3$$

Choose the correct answer below.

- A. Perpendicular
- B. Parallel
- C. Neither

21. Determine whether the lines are parallel, perpendicular or neither.

$$- 14 - 8x = 7y$$
$$- 7x + 8y = - 24$$

Choose the correct answer below.

- Parallel
- Perpendicular
- Neither

22. Find the slope of the line that is (a) parallel and (b) perpendicular to the line through the pair of points.

$$(- 9, - 2) \text{ and } (3, 9)$$

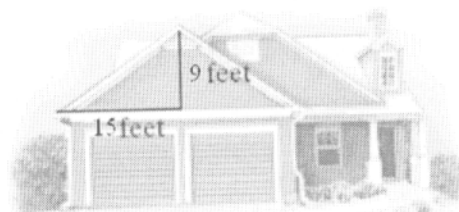
(a) The slope of the parallel line is .

(Type an integer or a simplified fraction. Type N if the slope is undefined.)

(b) The slope of the perpendicular line is .

(Type an integer or a simplified fraction. Type N if the slope is undefined.)

23. The pitch of a roof is its slope. Find the pitch of the roof shown.



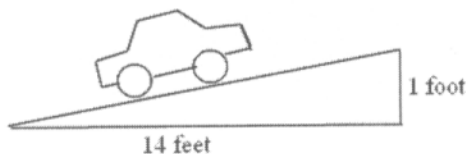
The pitch is . (Type an integer or a simplified fraction.)

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24. The grade of a road is its slope written as a percent. Find the grade of the road shown.

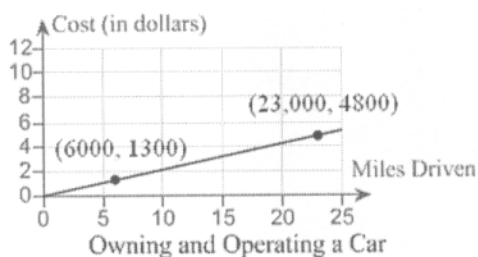


The grade is %.
(Round to one decimal place as needed.)

25. The grade of a road is its slope written as a percent. A very steep street has a maximum rise of 9 meters for a horizontal distance of 11.48 meters. Find the grade of this section of road.

The grade is approximately %. (Round to the nearest whole number as needed.)

26. Find the slope of the line and write it as a rate of change.



The rate of change is \$/mile.
(Round to two decimal places as needed.)