

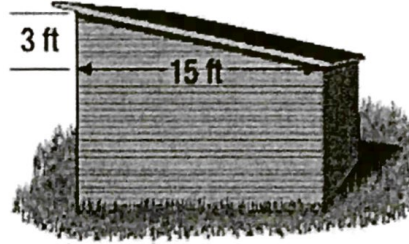
HW 2-1 Slope

Int 2

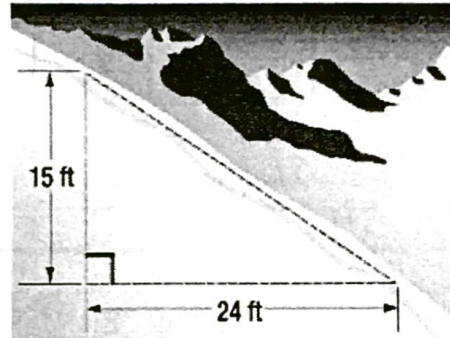
Unit 2

1. Find the slope of the storage shed's roof.

$$-\frac{1}{5}$$



2. Find the slope of a ski run that descends 15 feet for every horizontal change of 24 feet.



Find the slope of the line that contains the two points.

3. $(-3, 5)$ and $(4, -2)$

$$-\frac{1}{1} \text{ or } -1$$

6. $(4, 3)$ and $(1, 2)$

4. $(6, -2)$ and $(4, -2)$

7. $(5, -3)$ and $(5, 7)$

undefined

5. $(0, 2)$ and $(5, 0)$

$$-\frac{2}{5}$$

8. $(0, 1)$ and $(-5, -2)$

Use the tables to find the slope of the line that contains the following points.

9.

x	y
5	11.5
8	10
11	8.5

$$-\frac{1}{2}$$

10.

x	y
-3	-4
-1	-8
4	-18

11.

x	y
-2	8
0	6
10	-4

$$-\frac{1}{1} \text{ or } -1$$

12.

x	0	2	4	6
y	9	4	-1	-6

13.

x	0	1	2	3
y	3	5	7	9

$$\frac{2}{1} \text{ or } 2$$

14.

x	-3	3	9	15
y	-3	1	5	9

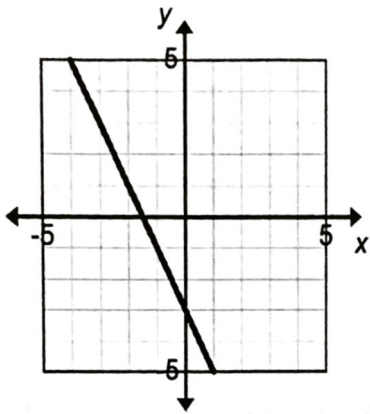
15.

x	-3	-1	2	7
y	10	4	-5	-20

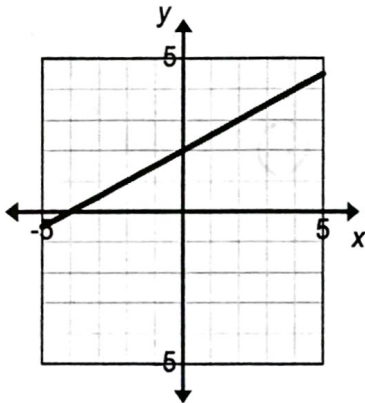
$$-\frac{3}{1} = -3$$

Pick two points on the line; then find the slope of the line.

16.

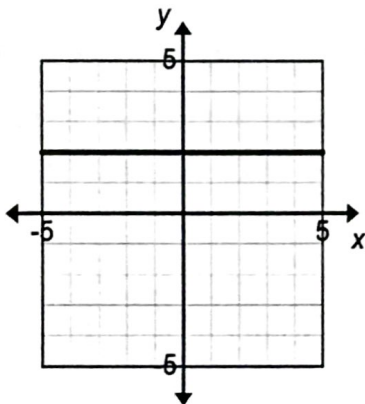


17.

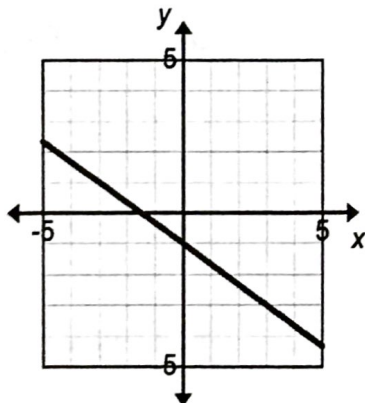


$$\frac{1}{2}$$

18.

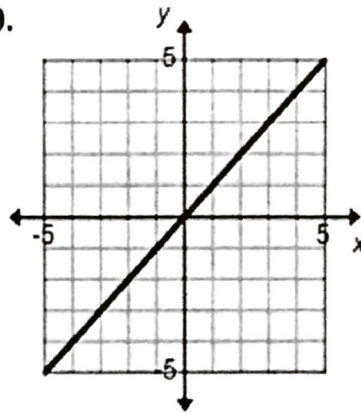


19.

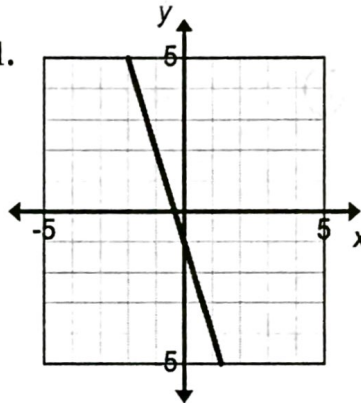


$$-\frac{2}{3}$$

20.

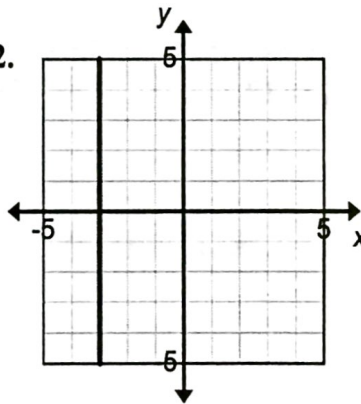


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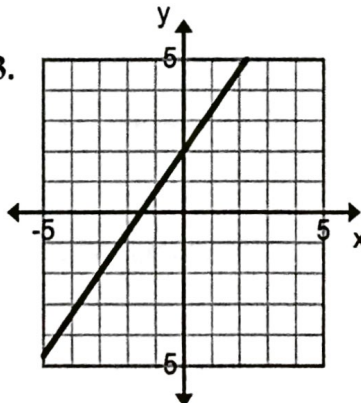


$$-\frac{3}{1} \text{ or } -3$$

22.



23.



$$\frac{4}{3}$$

For problems 24-27, circle the best answer.

24. A line with a negative slope...

- A. falls from left to right
- B. rises from left to right
- C. is horizontal
- D. is vertical

26. A line with a slope of zero...

- A. falls from left to right
- B. rises from left to right
- C. is horizontal
- D. is vertical

25. A line with a positive slope...

- A. falls from left to right
- B. rises from left to right
- C. is horizontal
- D. is vertical

27. A line with an undefined slope...

- A. falls from left to right
- B. rises from left to right
- C. is horizontal
- D. is vertical

Solve the equations and inequalities.

28. $3|x - 5| = 12$

29. $3x + 7(x - 4) = 52$

30. $5x + 8 > -2(6x - 7)$

$x = 8$