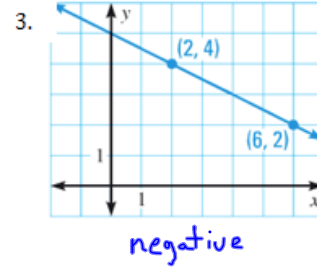
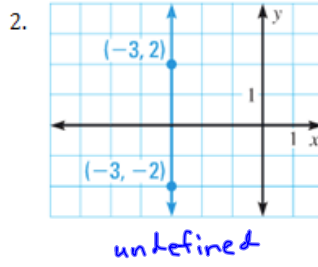
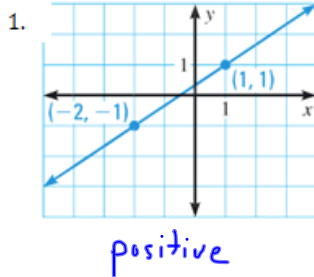


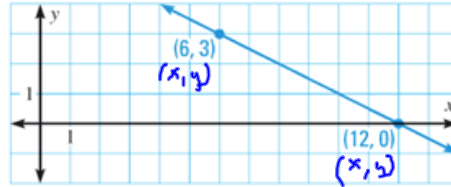
5.3 PRACTICE

Tell whether the slope of the line is positive, negative, zero or undefined. Then find the slope if it exists.



4. **ERROR ANALYSIS** Describe and correct the error in calculating the slope of the line shown.

$$m = \frac{12 - 6}{0 - 3} = \frac{6}{-3} = -2$$



They put x minus x over y minus y instead of y minus y over x minus x .

$$(6, 3)(12, 0) \quad \frac{0 - 3}{12 - 6} = \frac{-3}{6} = -\frac{1}{2}$$

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

5. $(-2, -1)$ and $(4, 5)$

$$\frac{5 - (-1)}{4 - (-2)} = \frac{6}{6} = 1$$

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

$$\frac{-2 - 3}{3 - 1} = \frac{-5}{2}$$

7. $(1, -3)$ and $(7, 3)$

$$\frac{3 - (-3)}{7 - 1} = \frac{6}{6} = 1$$

8. $(-9, 1)$ and $(1, 1)$

$$\frac{1 - 1}{1 - (-9)} = \frac{0}{10} = 0$$

9. **★ MULTIPLE CHOICE** The slope of the line that passes through the points $(-2, -3)$ and $(8, -3)$ is ? .

(A) positive

(B) negative

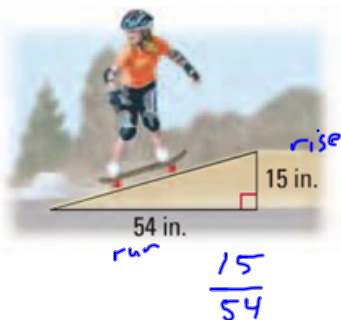
(C) zero

(D) undefined

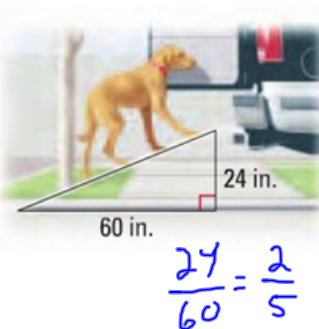
$$\frac{-3 - (-3)}{8 - (-2)} = \frac{-3 + 3}{8 + 2} = \frac{0}{10} = 0$$

Find the slope of the object.

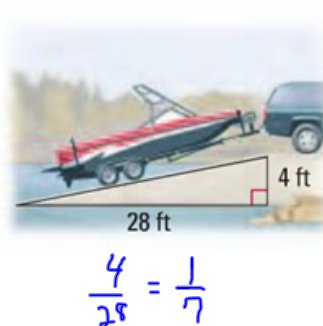
10. Skateboard ramp



11. Pet ramp



12. Boat ramp



Find the slope (rate of change) for the following.

13. Mr. Brust has 50 algebra books. He handouts 2 books every 3 days.

Slope (rate of change) = $\frac{2 \text{ books}}{3 \text{ days}}$
(LABEL IT!)

14. Bob makes 40 dollars a week. He already has 200 dollars.

Slope (rate of change) =
(LABEL IT!) $\frac{40 \text{ \$}}{1 \text{ week}}$

15. $y = 7 + \frac{3}{2}x$

Slope (rate of change) = $\frac{3}{2}$

16. $y = -3x + 5$

Slope (rate of change) =

-3

17.

x	y
0	2
1	11
2	20

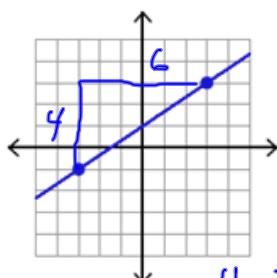
Slope (rate of change) = $\frac{9}{1} = 9$

18.

x	y
0	0
2	1
4	2

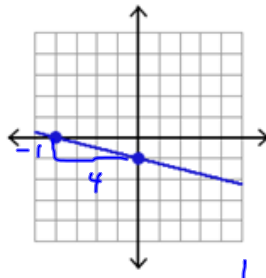
Slope (rate of change) = $\frac{1}{2}$

19.



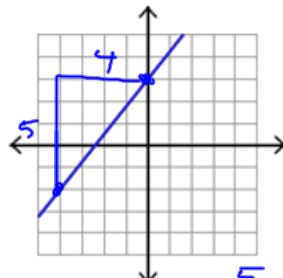
Slope (rate of change) = $\frac{4}{6} = \frac{2}{3}$

20.



Slope (rate of change) = $-\frac{1}{4}$

21.



Slope (rate of change) = $\frac{4}{5}$