= WORKED-OUT SOLUTIONS
on p. WS1 for Exs. 11 and 37
= TAKS PRACTICE AND REASONING Exs. 17, 18, 40, 42, and 43

## SKILL PRACTICE

1. VOCABULARY Copy and complete: The ? of a nonvertical line is the ratio of the vertical change to the horizontal change between any two points on the line.
2. WRITING Without calculating the slope, how can you tell that the slope of the line that passes through the points $(-5,-3)$ and $(2,4)$ is positive?
3. ERROR ANALYSIS Describe and correct the error in calculating the slope of the line passing through the points $(5,3)$ and $(2,6)$.

$$
m=\frac{6-3}{5-2}=\frac{3}{3}=1
$$

## EXAMPLES

$1,2,3$, and 4 on pp. 235-236
for Exs. 4-18

FINDING SLOPE Tell whether the slope of the line is positive, negative, zero, or undefined. Then find the slope if it exists.
4.

5.

6.

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

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



FINDING SLOPE Find the slope of the line that passes through the points.
8. $(-2,-1)$ and $(4,5)$
9. $(-3,-2)$ and $(-3,6)$
10. $(5,-3)$ and $(-5,-3)$
11. $(1,3)$ and $(3,-2)$
12. $(-3,4)$ and $(4,1)$
13. $(1,-3)$ and $(7,3)$
14. $(0,0)$ and $(0,-6)$
15. $(-9,1)$ and $(1,1)$
16. $(-10,-2)$ and $(-8,8)$
17. TAKS REASONING The slope of the line that passes through the points $(-2,-3)$ and $(8,-3)$ is $\qquad$ -.
(A) positive
(B) negative
(C) zero
(D) undefined
18. TAKS REASONING What is the slope of the line that passes through the points $(7,-9)$ and $(-13,-6)$ ?
(A) $-\frac{3}{20}$
(B) $\frac{3}{20}$
(C) $\frac{3}{4}$
(D) $\frac{5}{2}$

