$\qquad$ Date: $\qquad$ Per: $\qquad$

## Write Equations in Slope-Intercept Form

### 5.2 Practice 3

Write the equation of the line that passes through each point with the given slope.

1. $(-5,4), m=-3$
2. $(4,3), m=\frac{1}{2}$
3. $(1,-5), m=-\frac{3}{2}$
$y=-3 x-11$

$$
y=1 / 2 x+1
$$

$$
y=-\frac{3}{2} x-\frac{7}{2}
$$

Write the equation of the line that passes through each pair of points.
4. $(0,-4),(5,-4)$
5. $(-4,-4),(4,0)$
6. $(-2,-3),(4,5)$
$y=\frac{1}{2} x-2$
$y=\frac{4}{3} x-\frac{1}{3}$
7. $(0,1),(5,3)$

$$
y=\frac{2}{5} x+1
$$

8. $(-3,0),(1,-6)$

$$
y=-\frac{3}{2} x-\frac{9}{2}
$$

9. $(1,0),(5,-1)$
$y=-\frac{1}{4} x+\frac{1}{4}$

## Write an equation of the line that has each pair of intercepts.

10. $x$-intercept: $2, y$-intercept: -5

$$
y=\frac{5}{2} x-5
$$

12. $x$-intercept: $-2, y$-intercept: 1

$$
y=\frac{1}{2} x+1
$$

11. $x$-intercept: $2, y$-intercept: 10

$$
y=-5 x+10
$$

13. $x$-intercept: $-4, y$-intercept: -3

$$
y=-\frac{3}{4} x-3
$$

14. DANCE LESSONS The cost for 7 dance lessons in $\$ 82$. The cost for 11 lessons is $\$ 122$. Write a linear equation to find the total cost $C$ for $l$ lessons. Then use the equation to find the cost of 4 lessons.

$$
y=10 x+12 \quad \text { Total cost for } 4 \text { lessons is } \$ 52
$$

15. WEATHER It is $76^{\circ} \mathrm{F}$ at the 6000 -foot level of a mountain, and $49^{\circ} \mathrm{F}$ at the 12,000 -foot level of the mountain. Write a linear equation to find the temperature $T$ at an elevation $e$ on the mountain, where $e$ is in the thousands of feet.

$$
y=-0.0045 x+103
$$

## Write the equation of the line graphed.

16. 



$$
y=3 x-1
$$

18. 



$$
y=-x-4
$$

20. 



$$
y=-x+5
$$

17. 



$$
y=-2 x-2
$$

19. 


$y=x-6$
21.


$$
y=-2 x-5
$$

