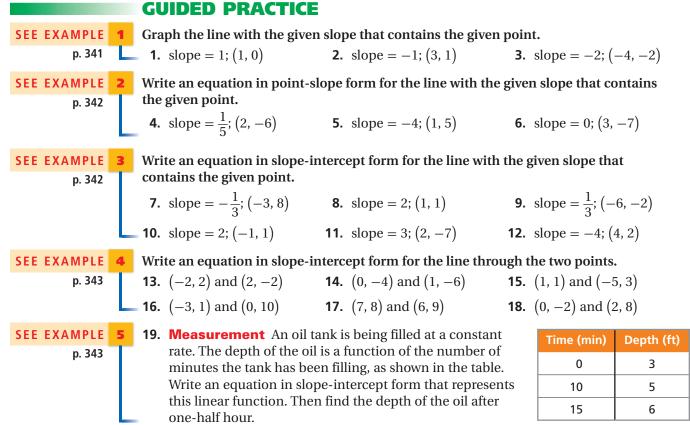
## Exercises

5-7





## **PRACTICE AND PROBLEM SOLVING**

Graph the line with the given slope that contains the given point.

**20.** slope = 
$$-\frac{1}{2}$$
; (-3, 4) **21.** slope =  $\frac{3}{5}$ ; (1, -2) **22.** slope = 4; (-1, 0)

Write an equation in point-slope form for the line with the given slope that contains the given point.

**23.** slope =  $\frac{2}{9}$ ; (-1, 5)**24.** slope = 0; (4, -2)**25.** slope = 8; (1, 8)**26.** slope =  $\frac{1}{2}$ ; (-8, 3)**27.** slope = 3; (4, 7)**28.** slope = -2; (-1, 3)

Write an equation in slope-intercept form for the line with the given slope that contains the given point.

<b>29.</b> slope = $-\frac{2}{7}$ ; (14, -3)	<b>30.</b> slope $=\frac{4}{5}$ ; (-15, 1)	<b>31.</b> slope = $-\frac{1}{4}$ ; (4, -1)
<b>32.</b> slope = $-6$ ; (9, 3)	<b>33.</b> slope = $-5$ ; (2, 3)	<b>34.</b> slope = $\frac{1}{5}$ ; (-5, -2)

## Write an equation in slope-intercept form for the line through the two points.

<b>35.</b> $(7, 8)$ and $(-7, 6)$	<b>36.</b> $(2, 7)$ and $(-4, 4)$	<b>37.</b> $(-1, 2)$ and $(4, -23)$
<b>38.</b> $(4, -1)$ and $(-8, -10)$	<b>39.</b> $(0, 11)$ and $(-7, -3)$	<b>40.</b> (1, 27) and (-2, 12)

For Exercises	See Example
20–22	1
23–28	2
29–34	3
35–40	4
41	5

Extra Practice Skills Practice p. S13 Application Practice p. S32