Practice 6-5 Point-Slope Form and Writing Linear Equations

Write an equation in point-slope form for the line through the given points or through the given point with the given slope.

2.
$$(-2, 3)$$
; $m = -1$

4.
$$(-2,3)$$
; $m=4$

5.
$$(4,7)$$
; $m=\frac{3}{2}$

5.
$$(4,7); m = \frac{3}{2}$$
 6. $(6,-2); m = -\frac{4}{3}$ **7.** $(0,5), (-3,2)$ **8.** $(8,11), (6,16)$

9.
$$(4, 2), (-4, -2)$$
 10. $(15, 16), (13, 10)$ **11.** $(0, -7); m = -4$ **12.** $(-3, 4), (1, 6)$

11.
$$(0, -7)$$
: $m = -4$

13.(1, 2); *m* undefined **14.** (-6, 7);
$$m = -\frac{1}{2}$$
 15. (21, -2), (27, 2) **16.** (7, 5); $m = 0$

16.
$$(7,5); m=0$$

17.
$$(8, -2), (14, 1)$$
 18. $(4, 8), (2, 12)$ **19.** $(-5, 13), (-10, 9)$ **20.** $(6, 2); m = \frac{3}{4}$

21.
$$(5, -3)$$
; $m = -2$

22.
$$(4, 3.5); m = 0.5$$

23.
$$(-6,2)$$
; $m=\frac{5}{3}$

21.(5, -3);
$$m = -2$$
 22. (4, 3.5); $m = 0.5$ **23.** (-6, 2); $m = \frac{5}{3}$ **24.** (100, 90), (80, 120)

27.
$$(2,7); m=\frac{5}{2}$$

26. (11,7), (9,3) **27.** (2,7);
$$m = \frac{5}{2}$$
 28. (-9,8); $m = -\frac{5}{3}$

Is the relationship shown by the data linear? If it is, model the data with an equation.

29. Х y 2 3 3 7 4 11

5

15

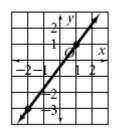
30.	X	У
	-3	4
	-1	6
	1	7
	3	10

33. х у -5-6-21 0 4 8 16

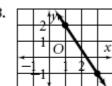
Write an equation of each line in point-slope form.

34.

37.



38.



35.

39.

36.

