Practice 5-5

Example Exercises

Example 1

Write the equation of a line through the given point with the given slope.

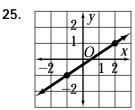
2. (-3, 1); m = -2 **3.** (-3, 2); m = 0 **4.** (5, -3); m = 51. (1, 4); m = 35. (2, 0); $m = \frac{3}{4}$ 6. (3, -5); $m = -\frac{4}{3}$ 7. (9, -5); m = -1 8. (0, 6); *m* undefined 9. $(6, -6); m = -\frac{7}{3}$ 10. $(7, 9); m = \frac{1}{2}$ 11. (1.5, 9.5); m = 0.5 12. $(12, -7); m = \frac{5}{2}$

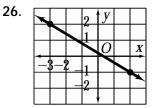
Example 2

Write an equation of a line through the given points.

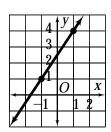
13 . (2, 4), (5, 7)	14 . (-1, 1), (2, 7)	15 . (0, 4), (-2, -2)	16 . (12, 18), (15, 12)
17 . (-8, 7), (8, 15)	18 . (50, 85), (60, 80)	19 . (12, 9), (9, 17)	20 . (0.5, 4), (3, 3.5)
21 . (0, -5), (3, -2)	22 . (-15, 9), (-10, 4)	23 . (12, -4), (16, 1)	24 . (6, 11), (3, 13)

Write an equation of each line.





30.



27.

Example 3

Tell whether the relationship between the x- and y-values is linear. If it is, write an equation for the relationship between the values.

29.

28.	x	у
	-4	-4
	0	4
	2	8
	6	16

4

lionship between		
X	у	
-3	3	
6	6	
12	8	
21	11	
	x -3 6 12	

X	у
5	11
8	16
12	25
17	37

31.	x	у
	-3	-13
	-1	-5
	0	-1
	3	11