

Practice 5-4**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.

1. (5,7), (6, 8)	2. $(-2,3); m = -1$	3. (1,2), (3,8)	4. $(-2,3); m = 4$
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)
13. (1,2); m undefined	14. $(-6,7); m = -\frac{1}{2}$	15. (21, -2), (27,2)	16. (7,5); $m = 0$

Write the equation of the line through the given points in slope-intercept form. Then rewrite the equation in standard form using integers.

17. (8, -2), (14,1)	18. (4, 8), (2,12)	19. $(-5,13), (-10,9)$	20. (6,2), (-1,7)
21. $(5, -\left(\frac{5}{3}, \frac{3}{2}\right) - 2, 0)$	22. (0,7), (-5,12)	23. (-6,2),	24. (100,90), (80,120)
25. $(-3,6), (3, -6)$	26. (11,7), (9,3)	27. $(2,7), \left(\frac{5}{2}, 3\right)$	28. $(-9, 8), \left(-\frac{5}{3}, 2\right)$

29.	x	y
2	3	
3	7	
4	11	
5	15	

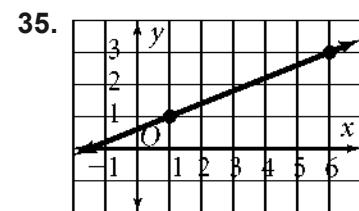
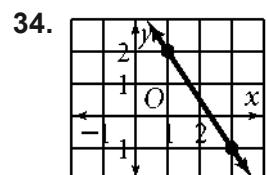
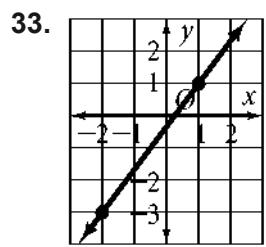
30.	x	y
-3	4	
-1	6	
1	7	
3	10	

32.	x	y
-2	5	
3	-5	
7	-13	
11	-21	

31.	x	y
-4	12	
-1	8	
5	-4	
10	-8	

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

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



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Practice

Algebra 1 Lesson 5-4

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