

Name _____ Class _____ Date _____

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.

17. $(8, -2), (14,1)$
18. $(4, 8), (2,12)$
19. $(-5,13), (-10,9)$
20. $(6,2), (-1,7)$
21. $(5, -3), (-2,0)$
22. $(0,7), (-5,12)$
23. $(-6,2), (0,5)$
24. $(100,90), (80,120)$

Write an equation for each line in point-slope form. Then rewrite the equation in slope-intercept form.

