Date Class Name _____ **California Standards** 6.0* LESSON Practice 5-5 Slope-Intercept Form Write the equation that describes each line in slope-intercept form **4.** slope $=\frac{2}{5}$, (10, 3) is on the line. **1.** slope = 4; y-intercept = -3*y* = _____ Find the *y*-intercept: y = mx + b**2.** slope = -2; *y*-intercept = 0 _) + b *y* = _____ **3.** slope = $-\frac{1}{3}$; *y*-intercept = 6 = + by == b Write the equation: y =Write each equation in slope-intercept form. Then graph the line described by the equation. 6. $y + 4 = \frac{4}{3}x$ 7. 5x - 2y = 10**5.** y + x = 38. Daniel works as a volunteer in a homeless shelter. So far, he has worked 22 hours, and he plans to Volunteer Hours continue working 3 hours per week. His hours worked 100 as a function of time is shown in the graph. 90 80 a. Write an equation that represents the hours Daniel will 70 work as a function of time. **Hours Worked** 60 50 **b.** Identify the slope and *y*-intercept and describe their 40 meanings. 30 20 10 c. Find the number of hours worked after 16 weeks. 8 10 12 14 16 18 20 Time (weeks)

