**4-2 Practice**

***Writing Equations in Slope-Intercept Form***

**Write an equation of the line that passes through the given point and has the given slope.**

 **1. 2. 3.**

 **4.** (–5, 4); slope –3 **5.** (4, 3); slope $\frac{1}{2}$ **6.** (1, –5); slope $-\frac{3}{2}$

 **7.** (3, 7); slope $\frac{2}{7}$ **8.** $\left(-2, \frac{5}{2}\right)$ ; slope $-\frac{1}{2}$ **9.** (5, 0); slope 0

**Write an equation of the line that passes through each pair of points.**

**10. 11. 12.**

**13.** (0, –4), (5, –4) **14.** (–4, –2), (4, 0) **15.** (–2, –3), (4, 5)

**16.** (0, 1), (5, 3) **17.** (–3, 0), (1, –6) **18.** (1, 0), (5, –1)

**19. DANCE LESSONS** The cost for 7 dance lessons is $82. The cost for 11 lessons is $122. Write a linear equation to find the total cost *C* for *ℓ* lessons. Then use the equation to find the cost of 4 lessons.

**20. WEATHER** It is 76°F at the 6000-foot level of a mountain, and 49°F at the 12,000-foot level of the mountain.
Write a linear equation to find the temperature *T* at an elevation *x* on the mountain, where *x* is in thousands of feet.