Lesson 5.5

Practice Level B

1. $y - 7 = 5(x - 4)$ **2.** $y + 2 = \frac{2}{3}(x - 3)$

3. $y - 1 = -4(x + 6)$ **4.** $y + 5 = 6(x + 5)$

5. $y + 8 = -2x$ **6.** $y - 11 = \frac{1}{2}(x + 9)$

7. $y + 1 = -\frac{1}{3}(x - 1)$ **8.** $y = -\frac{3}{2}(x - 5)$

9. $y + 7 = 5(x - 3)$ **10.** $y - 2 = -\frac{1}{2}(x + 9)$

11. $y + 11 = -\frac{5}{2}(x - 10)$ **12.** $y + 8 = \frac{3}{8}(x + 4)$

13. Lines b and c are perpendicular. **14.** Lines a and b and lines b and c are perpendicular. Lines a and c are parallel. **15.** Lines a and b and lines b and c are perpendicular. Lines a and c are parallel.

16. a. $y = \frac{2}{3}x + 4$ **b.** $y = -\frac{4}{3}x + 4$ **c.** No. The lines for part A and part B are not perpendicular.

17. a. you: $y = \frac{1}{2}x$; your friend: $y = \frac{1}{2}x + 5$

b. you: 10 sandwiches; your friend: 15 sandwiches
c. The graphs are parallel because they have the same slope but different y-intercepts.