1. **y = (x + 2)(x + 4)** is the equation for the parabola graphed below.

2. **y = x(x - 3)** is the equation for the parabola graphed below.

3. **y = (x + 2)(x - 2)**

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

5. **y = (x - 3)^2**

6. **y = -2(x + 2)(x - 1)**

7. **y = -(x - 2)(x + 4)**

8. **y = 2x(x - 4)**
In 9–11, sketch the graph of the quadratic equation without a calculator.

9. \( y = \frac{1}{2}(x - 2)(x - 6) \)  
10. \( y = -\frac{3}{2}(x + 3)(x - 1) \)  
11. \( y = \frac{1}{3}(x - 3)(x + 3) \)

In 12–17, match each equation to the correct graph without a calculator.

12. \( y = (x - 1)(x + 1) \)  
13. \( y = -3(x + 1)(x - 1) \)  
14. \( y = x(x - 1) \)  
15. \( y = -\frac{1}{3}(x - 1)(x + 1) \)  
16. \( y = \frac{1}{2}(x - 1)(x + 1) \)  
17. \( y = 4x(x - 1) \)