Name _____ Date _____ Pd _____

8.5 Using Intercept Form Day One WS

1 – 2: Find the x-intercepts and axis of symmetry of the graph of the function. Use correct notation.

   1. $y = (x + 2)(x - 4)$ 2. $y = -3(x - 2)(x - 3)$

3 – 6: Graph the quadratic function. Label the vertex, axis of symmetry, and x-intercepts. Describe the domain and range of the function. Use proper notation.

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

                    Domain: Domain:

                    Range: Range:

   5. $y = x^2 - 4$ 6. $f(x) = x^2 + 2x - 15$

                    Domain: Domain:

                    Range: Range:
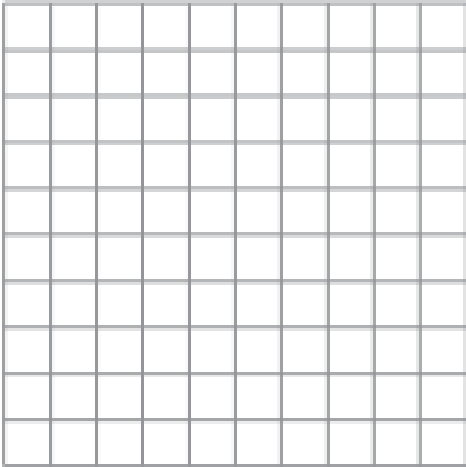
7 – 8: Find the zero(s)/solution(s) of the function. Write in correct notation.
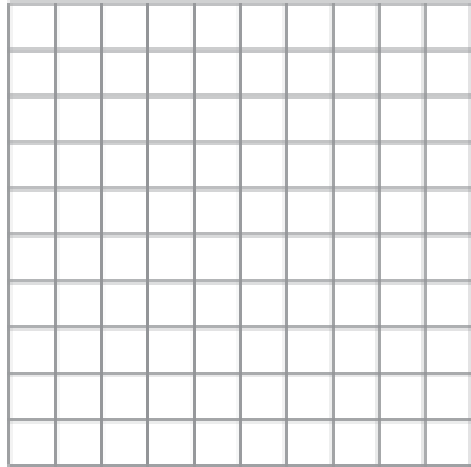
7. $y = 6x^2 - 6$

8. $y = x^2 + 9x + 20$

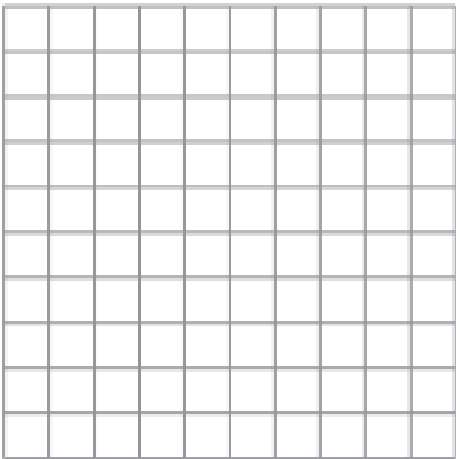**9 – 12: Use zeros to graph the function.**

9. $f(x) = x^2 - 3x - 10$

10. $f(x) = -2(x + 3)(x - 1)$

11. $f(x) = x^2 - 9x$

12. $f(x) = 2x^2 - 12x + 10$