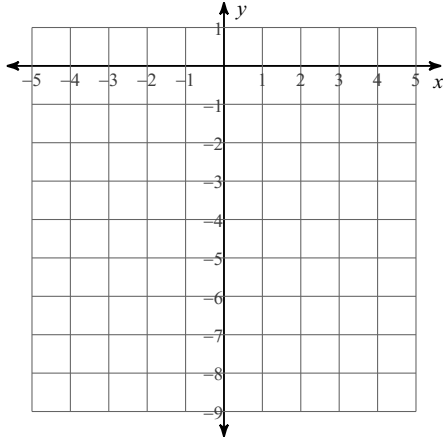


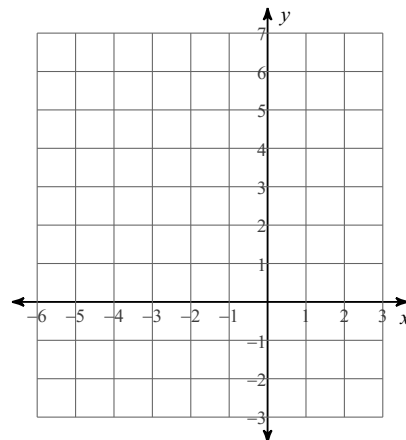
Unit 2 Hw "Solving Quadratics" {2.1-2.5}

Find the AOS, the vertex, the y-intercept, and the zeros of the function. Make a table of values with the vertex in the middle and then graph the function accurately.

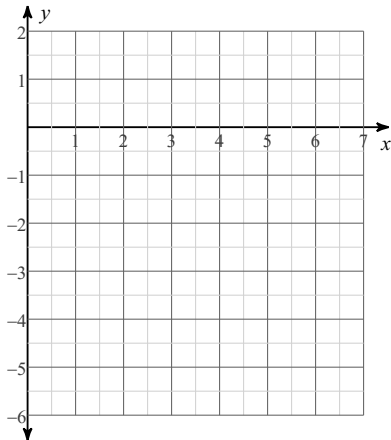
1) $y = -2x^2$



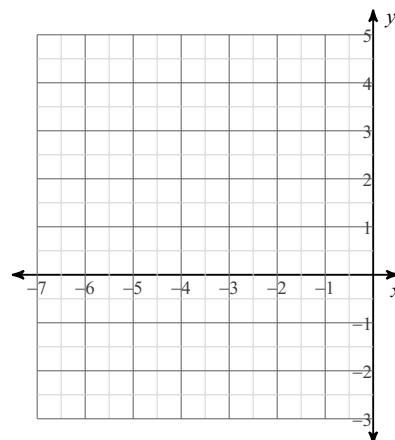
2) $y = 2(x + 4)^2 - 2$



3) $y = x^2 - 8x + 12$



4) $y = -\frac{1}{2}(x + 4)^2 + 2$



Solve each equation by factoring.

5) $12(7x - 4)(x + 9) = 0$

6) $x^2 - 7x = 0$

7) $n^2 + 3n - 101 = 7$

8) $12v^2 + 36v - 51 = -3$

Solve each equation by taking square roots.

9) $-4r^2 = -676$

10) $4a^2 - 11 = 129$

11) $9n^2 + 3 = -47$

12) $2n^2 + 10 = -34$

Solve each equation with the quadratic formula.

13) $2n^2 + 8n - 36 = 6$

14) $2x^2 + 8x + 14 = 8$

15) $3k^2 = -10 + 12k$

16) $6m^2 + 4 = -4m$

17) $4a^2 - 4a = 35$

18) $4x^2 + 8x = -8$