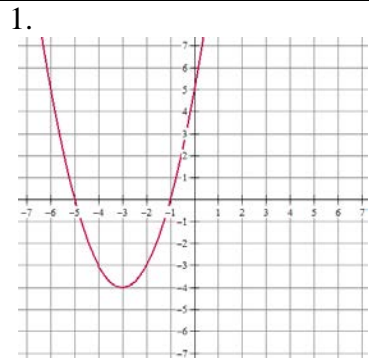


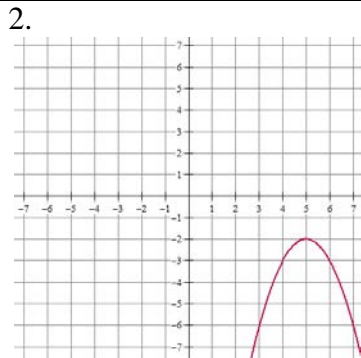
Corrective Assignment

Find the roots and vertex of the functions graphed below.



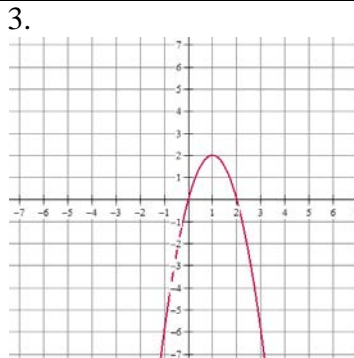
Roots:

Vertex:



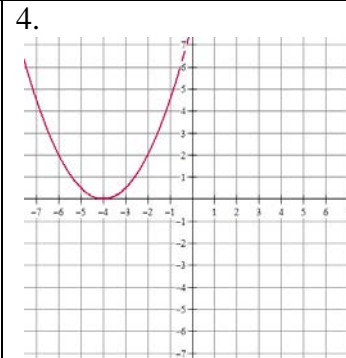
Roots:

Vertex:



Roots:

Vertex:



Roots:

Vertex:

Find the zeros and vertex of the function by graphing. Round to the nearest hundredth.

5. $f(x) = x^2 - 2x - 4$

Zeros:

Vertex:

6. $f(x) = 2x^2 + 20x + 46$

Zeros:

Vertex:

7. $f(x) = -x^2 - 11x - 23$

Zeros:

Vertex:

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

Zeros:

Vertex:

9. $f(x) = -3x^2 + 30x - 75$

Zeros:

Vertex:

10. $f(x) = 4x^2 + 40x + 102$

Zeros:

Vertex:

Solve the equation by graphing. Round to the nearest hundredth.

11. $6x^2 - 5x - 6 = 0$

12. $0 = 2m^2 + 3m - 13$

13. $11x^2 + 6x - 12 = -3$

14. $-9 = p^2 + 8p + 7$

15. $b^2 + 12b = -16$

16. $0.5n^2 = 5n + 7$

ANSWERS TO CORRECTIVE ASSIGNMENT 12.2

1. Roots: $x = -5$ and -1 Vertex: $(-3, -4)$	2. Roots: None Vertex: $(5, -2)$	3. Roots: $x = 0$ and 2 Vertex: $(1, 2)$	4. Root: $x = -4$ Vertex: $(-4, 0)$
5. Zeros: $x = -1.24$ and 3.24 Vertex: $(1, -5)$	6. Zeros: $x = -6.41$ and -3.59 Vertex: $(-5, 4)$	7. Zeros: $x = -8.19$ and 2.81 Vertex: $(-5.5, 7.25)$	
8. Zeros: $x = -0.3$ and 3.3 Vertex: $(1.5, 3.25)$	9. Zeros: $x = 5$ Vertex: $(5, 0)$	10. Zeros: None Vertex: $(-5, 2)$	
11. $x = 1.5$ and -0.67	12. $m = 1.91$ and -3.41	13. $x = 0.67$ and -1.22	
14. $p = -4$	15. $b = -10.47$ and -1.53	16. $n = -1.25$ and 11.25	