

Name: \_\_\_\_\_ Per: \_\_\_\_\_

Mixed Practice: Quadratics

1. Determine the vertex. $f(x) = 3(x + 2)^2 - 6$	5. Graph. $f(x) = -x^2 + 6x - 5$
2. Solve. $f(x) = 4x^2 + 8x - 30$	6. Determine the vertex. $f(x) = -3x^2 + 12x - 8$
3. Determine the zeros. $f(x) = -3x^2 - 5x + 2$	7. Determine the roots. $f(x) = 5(x - 3)^2 + 10$
4. Determine the y-intercept. $f(x) = -7(x + 1)^2 + 5$	8. Determine the solutions. $f(x) = x^2 + 12x + 32$

9. Determine the vertex.  $f(x) = 6x^2 + 24x + 54$

13. Determine the y-intercept.  $f(x) = -3x^2 - 7x + 8$

10. Determine the x-intercepts.  $f(x) = 2x^2 - 10x - 132$

14. Determine the vertex.  $f(x) = x^2 - 12x + 10$

11. Graph.  $f(x) = -3(x + 2)^2 + 7$

15. Solve.  $f(x) = x^2 + 9x - 2$

12. Determine the roots.  $f(x) = -4x^2 + 6x + 2$

16. Determine the vertex.  $f(x) = -6(x + 5)^2$