

Algebra II  
Quadratics #9

Name \_\_\_\_\_

Solve the following equations by graphing. Use your graphing calculator.

1.  $x^2 + 3x + 2 = 0$

2.  $-x^2 + 2x + 3 = 0$

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

4.  $f(x) = -x^2 - 4 + 8$

5.  $8x = -4 - 4x^2$

6.  $3x^2 = 6x - 3$

7.  $\frac{1}{5}x^2 + 6 = 2x$

8.  $3x = \frac{1}{4}x^2 + 5$

Factor the following.

9.  $x^4 - 81$

10.  $2x^2 + 4x - 70$

11.  $12x^2 - 23x - 9$

12.  $3x^6 - 147$