

Name \_\_\_\_\_

### Quadratic Formula Review

Use the quadratic formula to solve the equation.

1.  $2x^2 + x - 6 = 0$       [A]  $-\frac{3}{2}, 2$       [B]  $\frac{3}{2}, -2$       [C]  $\frac{1}{4}$       [D]  $-\frac{1}{4}$

[1] \_\_\_\_\_

2.  $2x^2 - 7x - 1 = 0$       [A]  $\frac{7 \pm \sqrt{57}}{4}$       [B]  $\frac{-7 \pm \sqrt{57}}{4}$       [C]  $\frac{-7 \pm \sqrt{41}}{4}$       [D]  $\frac{7 \pm \sqrt{41}}{4}$

[2] \_\_\_\_\_

3.  $4x^2 + 3x - 10 = 0$

[3] \_\_\_\_\_

4.  $4x^2 - 9x = 4$

[4] \_\_\_\_\_

5.  $2x^2 + 7x = 2$

[5] \_\_\_\_\_

Find the discriminant, and determine the number of real solutions. Then solve.

6.  $x^2 - 10x + 41 = 0$

[A]  $-81; 0; -5 \pm 8i$

[B]  $-310; 0; 5 \pm 8i$

[C]  $-64; 0; 5 \pm 4i$

[D]  $-264; 0; -5 \pm 4i$

[6] \_\_\_\_\_

7.  $4x^2 + 15x - 25 = 0$

[A]  $1516; 2; \frac{5}{4}, 5$

[B]  $325; 2; -\frac{5}{4}, -5$

[C]  $325; 2; -\frac{5}{4}, 5$

[D]  $625; 2; \frac{5}{4}, -5$

[7] \_\_\_\_\_

8.  $-3x^2 - 3x - 2 = 0$

[8] \_\_\_\_\_

9.  $4x^2 - 25 = 0$

[9] \_\_\_\_\_

10.  $100x^2 - 9 = 0$

[10] \_\_\_\_\_