

Name _____

Algebra II Practice Quiz 6.5

Solve each equation by using the quadratic formula.

1. $x^2 - 4x - 21 = 0$ _____

2. $2x^2 + 10x + 11 = 0$ _____

3. $9x^2 - 6x + 1 = 0$

4. $x^2 + 81 = 0$

5. $x^2 + 3x - 6 = 0$

A. Find the value of the discriminant

B. Describe the number and type of root (2 rational roots, 2 irrational roots, 1 rational root, 2 complex roots)

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

A. _____

B. _____

7. $6x^2 + 3x + 6 = 0$

A. _____

B. _____

8. $4x^2 + 20x + 25 = 0$

A. _____

B. _____

9. $-12x^2 + 5x + 2 = 0$

A. _____

B. _____

10. $x^2 + 9x + 13 = 0$

A. _____

B. _____