

**Name:**

**Math 2**

**Date:**

**Practice Quiz 7-E**

1. Find the discriminant of each expression.

a)  $x^2 + 10x - 11$

b)  $3x^2 + 2x + 4$

c)  $4x^2 - 20x + 25$

2. State the number of real solutions and the number of nonreal solutions of each equation.

a)  $x^2 + 10x - 11 = 0$

b)  $3x^2 + 2x + 4 = 0$

c)  $4x^2 - 20x + 25 = 0$

3. State the number of  $x$ -intercepts of each graph.

a)  $y = x^2 + 10x - 11$

b)  $y = 3x^2 + 2x + 4$

c)  $y = 4x^2 - 20x + 25$

4. Solve each equation, showing all work with equations only. Simplify nonreal answers, and round irrational answers to the nearest hundredth.

a)  $x^2 + 10x - 11 = 0$

b)  $3x^2 + 2x + 4 = 0$

c)  $4x^2 - 20x + 25 = 0$

---