Handout 2: Finding Your Roots

1. Solve using the quadratic formula
$$x^2 - 5x + 3 = 0$$
.

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

2. Solve using the quadratic formula
$$-3x^2 - 4x - 1 = 0$$
.

7. Solve using the quadratic formula
$$4x^2 + 12x + 9 = 0$$
.

3. Solve using the quadratic formula
$$10x^2 + 5x - 15 = 0$$
.

8. Solve using the quadratic formula
$$-2x^2 + 4x - 3 = 0$$
.

4. Solve using the quadratic formula
$$2x^2 + 8x + 8 = 0$$
.

9. How many real number or complex number roots does the following equation have?
$$5x^2 + 8x + 2 = 0$$

5. Solve using the quadratic formula
$$\frac{1}{2}x^2 + x + 7 = 0$$
.

$$6.$$
 Solve using the quadratic formula

$$-3x^2 + 6x - 13 = 0$$

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