Handout 2: Finding Your Roots

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

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

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

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

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

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

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

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

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

10. How many real number or complex number roots does the following equation have?
$-3x^2 + 6x - 13 = 0$
