

11.3 The Quadratic Formula

Algebra 1

Name: _____

CA #2

Solve each equation using the quadratic formula.

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

2. $x^2 + 100 = 40 - 16x$

3. $x^2 + 2x - 16 = -4x$

4. $28x^2 = 2 - x$

5. $18x^2 + 4x + 2 = 7x + 12$

Solve each equation using the quadratic formula. Give your answers in both EXACT (simplified radical) and DECIMAL (round to the nearest hundredth).

6. $2 + 3x = 4x^2$

EXACT:

ROUNDED:

7. $x^2 + 4x = 3$

EXACT:

ROUNDED:

Answers to 11.3 CA #2

1. $x = -5, x = 2$	2. $x = -6, x = -10$	3. $x = 2, x = -8$	4. $x = -\frac{2}{7}, x = \frac{1}{4}$
5. $x = -\frac{2}{3}, x = \frac{5}{6}$	6. $x = \frac{3 \pm \sqrt{41}}{8}$ $x \approx 1.18, x \approx -0.43$	7. $x = -2 \pm \sqrt{7}$ $x \approx 0.65, x \approx -4.65$	