

Name: _____

Unit 8: Quadratic Equations

Date: _____ Bell: _____

Homework 10: Solving Quadratics by
The Quadratic Formula

** This is a 2-page document! **

Solve each quadratic equation by the quadratic formula.

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Simplify all irrational solutions.

1. $x^2 - 2x - 48 = 0$

$$x = \frac{2 \pm \sqrt{(-2)^2 - 4(1)(-48)}}{2(1)}$$

$$x = \frac{2 \pm \sqrt{4 + 192}}{2}$$

$$x = \frac{2 \pm \sqrt{196}}{2}$$

$$x = \frac{2 \pm 14}{2} = \boxed{\{-6, 8\}}$$

2. $6x^2 - 15x = 0$

$$x = \frac{15 \pm \sqrt{(-15)^2 - 4(6)(0)}}{2(6)}$$

$$x = \frac{15 \pm \sqrt{225 + 0}}{12}$$

$$x = \frac{15 \pm 15}{12}$$

$$x = \frac{30}{12}, \frac{0}{12}$$

$$x = \boxed{\left\{\frac{5}{2}, 0\right\}}$$

3. $-x^2 + 8x = 7$

$$-x^2 + 8x - 7 = 0$$

$$x = \frac{-8 \pm \sqrt{8^2 - 4(-1)(-7)}}{2(-1)}$$

$$x = \frac{-8 \pm \sqrt{64 - 28}}{-2}$$

$$x = \frac{-8 \pm \sqrt{36}}{-2}$$

$$x = \frac{-8 \pm 6}{-2} = \boxed{\{1, 7\}}$$

4. $x^2 + 4x + 17 = 8 - 2x$

$$x^2 + 6x + 9 = 0$$

$$x = \frac{-6 \pm \sqrt{6^2 - 4(1)(9)}}{2(1)}$$

$$x = \frac{-6 \pm \sqrt{36 - 36}}{2}$$

$$x = \frac{-6 \pm \sqrt{0}}{2}$$

$$x = \frac{-6}{2} = \boxed{\{-3\}}$$

5. $4x^2 - 25 = 0$

$$x = \frac{0 \pm \sqrt{0^2 - 4(4)(-25)}}{2(4)}$$

$$x = \frac{0 \pm \sqrt{0 + 400}}{8}$$

$$x = \frac{\pm \sqrt{400}}{8}$$

$$x = \frac{\pm 20}{8} = \boxed{\left\{\pm \frac{5}{2}\right\}}$$

6. $6x^2 + 18x = x - 12$

$$6x^2 + 17x + 12 = 0$$

$$x = \frac{-17 \pm \sqrt{17^2 - 4(6)(12)}}{2(6)}$$

$$x = \frac{-17 \pm \sqrt{289 - 288}}{12}$$

$$x = \frac{-17 \pm \sqrt{1}}{12}$$

$$x = \frac{-17 \pm 1}{12} = \boxed{\left\{\frac{-3}{2}, \frac{-4}{3}\right\}}$$

Making Practice Fun 45 More Quadratic Equations

Marcel A. Müller



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