

## Algebra I Worksheet #4 Unit 13 Selected Homework Solutions

Solve each of the following **using the square root property**. Show all of your work neatly organized. If any solution is irrational, then give its exact value in standard radical form. Show your work neatly organized.

3.  $x^2 - 12 = 0$

$$x^2 = 12$$

$$x = \pm \sqrt{12}$$

$$x = \pm 2\sqrt{3}$$

4.  $3x^2 - 1 = 0$

$$3x^2 = 1$$

$$x^2 = \frac{1}{3}$$

$$x = \pm \sqrt{\frac{1}{3}}$$

$$x = \pm \frac{\sqrt{3}}{3}$$

7.  $2x^2 - 5 = 0$

$$2x^2 = 5$$

$$x^2 = \frac{5}{2}$$

$$x = \pm \sqrt{\frac{5}{2}}$$

$$x = \pm \frac{\sqrt{10}}{2}$$

9.  $5x^2 - 9 = 0$

$$5x^2 = 9$$

$$x^2 = \frac{9}{5}$$

$$x = \pm \sqrt{\frac{9}{5}}$$

$$x = \pm \frac{3\sqrt{5}}{5}$$

13.  $7x^2 - 2 = 0$

$$7x^2 = 2$$

$$x^2 = \frac{2}{7}$$

$$x = \pm \sqrt{\frac{2}{7}}$$

$$x = \pm \frac{\sqrt{14}}{7}$$

15.  $3x^2 - 25 = 0$

$$3x^2 = 25$$

$$x^2 = \frac{25}{3}$$

$$x = \pm \sqrt{\frac{25}{3}}$$

$$x = \pm \frac{5\sqrt{3}}{3}$$