

Solving w/ Square Roots

$$\sqrt{x^2} = \sqrt{49}$$

$$x = 7, -7$$

$$\sqrt{49} = 7$$

$$x = \pm 7$$

$$7(7) = 49 \quad \left\{ \begin{array}{l} (-7)(-7) = 49 \end{array} \right.$$

When you solve w/ square roots, you get 2 answers
(\pm square root)

Do not take a square root until you have

x^2 all by itself!

②

$$\frac{-3x^2}{-3} = \frac{+36}{+3}$$

$$\sqrt{x^2} = \sqrt{12}$$

$$x = \pm\sqrt{12} = \pm\sqrt{4\sqrt{3}} = \pm 2\sqrt{3}$$

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

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

$$\textcircled{3} \quad \begin{array}{r} 2x^2 - 5 = 17 \\ \hline + 5 \quad + 5 \end{array}$$

$$\frac{2x^2}{2} = \frac{22}{2}$$

$$\Rightarrow \sqrt{x^2} = \sqrt{11}$$

$$x = \pm \sqrt{11}$$

④

$$\begin{array}{r} 3x^2 + 12 = 3 \\ -12 \quad -12 \\ \hline \end{array}$$

$$\Rightarrow \frac{3x^2}{3} = \frac{-9}{3}$$

$$\sqrt{x^2} = \sqrt{-3}$$



NO SOLUTION!

F #8 p879 6-15, 23-39 all

M #9 KUNTA Sq Root 1 1-16

J #10 KUNTA Sq R 2 all

W Quiz 9.1-9.4

Tu/F
23 24

New stuff!