

8.4 Square Roots

4/17/13

Inverses

$$+ \longleftrightarrow -$$

$$\times \longleftrightarrow \div$$

$$(\)^2 \longleftrightarrow \sqrt{\ }$$

$$\textcircled{\text{ex}} \sqrt{x^2} = 9$$

$$x = \pm 3$$

* Always \pm (2 answers)

$$\textcircled{\text{ex}} \sqrt{x^2} = \sqrt{25}$$

$$x = \pm 5$$

$$\textcircled{\text{ex}} \frac{3x^2}{3} = \frac{48}{3}$$

$$\sqrt{x^2} = 16$$

$$x = \pm 4$$

$$\textcircled{\text{ex}} \begin{array}{r} -7x^2 - 6 = -13 \\ +6 \quad +6 \end{array}$$

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

$$\sqrt{x^2} = \sqrt{1}$$

$$x = \pm 1$$

$$\textcircled{\text{ex}} (\sqrt{x})^2 = (8)^2$$

$$x = 64$$

$$V = \frac{1}{3} (3.14) r^2 h$$

$$1 = \frac{1}{3} (3.14) r^2 (2)$$

$$\frac{1}{2.09} = \frac{2.09}{2.09} r^2$$

$$.48 = r^2$$