

## LESSON 5.4: SOLVING RADICAL EQUATIONS AND INEQUALITIES

Homework: \_\_\_\_\_

Extraneous solutions: Solutions that are \_\_\_\_\_ solutions. When you plug them back into the \_\_\_\_\_, it gives you a \_\_\_\_\_ radical, which is not possible.

$$\sqrt[3]{x} - 9 = -6$$

$$2\sqrt[4]{x+6} = 24$$

$$x + 1 = \sqrt{7x + 15}$$

$$(2x)^{\frac{3}{4}} + 2 = 10$$