

## Solving Equations with Extraneous Solutions

Name \_\_\_\_\_

Date \_\_\_\_\_ Period \_\_\_\_\_

Extraneous solutions are solutions that do not satisfy the original equation

$$\sqrt{x + 5} = x + 3$$

Extraneous solutions are solutions that do not satisfy the original equation

$$\sqrt{x + 8} = x - 4$$

Extraneous solutions are solutions that do not satisfy the original equation

$$\sqrt{x + 56} = x$$

Extraneous solutions are solutions that do not satisfy the original equation

$$(x + 18)^{\frac{1}{2}} = x - 2$$

Extraneous solutions are solutions that do not satisfy the original equation

$$\sqrt{x+2}-7=\sqrt{x+9}$$