

Extraneous Solutions

1.
$$\sqrt{(x+5)^2} = x+5$$

Which of the following values of x is NOT a solution to the equation shown?

- A) -6
- B) -4
- C) -2
- D) 0

$$2. \qquad \sqrt{(x)^4} = 4$$

What are all possible solutions to the given equation?

- A) -2 only
- B) 2 only
- C) -2 and 2
- D) -4 and 4

3.
$$x-1 = \sqrt{-x+7}$$

Which of the following values of x is a solution to the equation above?

- A) -3
- B) -2
- C) 1
- D) 3

4.
$$x-3 = \sqrt{x+17}$$

What are all values of x that satisfy the given equation?

- I. -1 II. 8
- A) I only
- B) II only
- C) I and II
- D) Neither I nor II
- **5.** What is the set of all solutions to the equation

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

- A) $\{-1,3\}$
- B) {-1}
- C) {3}
- D) There are no solutions to the given equation.