$\qquad$
$\qquad$

## 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.

$$
\sqrt{(x)^{4}}=4
$$

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

What are all values of $x$ that satisfy the given equation?
I. $\quad-1$
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
$\sqrt{2 x+3}=-x$ ?
A) $\{-1,3\}$
B) $\{-1\}$
C) $\{3\}$
D) There are no solutions to the given equation.

