

**MA90 Exercises for section 8.6 Equations Involving Radicals****Short Answer**

1. Solve the equation by applying the squaring property of equality. Be sure to check all solutions in the original equation.

$$\sqrt{x+1} = 4$$

2. Solve the equation by applying the squaring property of equality. Be sure to check all solutions in the original equation.

$$\sqrt{x-8} = 0$$

3. Solve the equation by applying the squaring property of equality. Be sure to check all solutions in the original equation.

$$\sqrt{x-6} = -3$$

Name: \_\_\_\_\_

ID: A

4. Solve the equation by applying the squaring property of equality. Be sure to check all solutions in the original equation.

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

5. Solve the equation by applying the squaring property of equality. Be sure to check all solutions in the original equation.

$$\sqrt{2x-1} = 7$$

6. Solve the equation by applying the squaring property of equality. Be sure to check all solutions in the original equation.

$$5\sqrt{x} = 15$$

Name: \_\_\_\_\_

ID: A

7. Solve the equation by applying the squaring property of equality. Be sure to check all solutions in the original equation.

$$\sqrt{x+8} = x+6$$

8. Solve the equation by applying the squaring property of equality. Be sure to check all solutions in the original equation.

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

**MA90 Exercises for section 8.6 Equations Involving Radicals  
Answer Section****SHORT ANSWER**

1. ANS:  
 $x = 15$

PTS: 1

2. ANS:  
 $x = 8$

PTS: 1

3. ANS:  
 $\emptyset$

PTS: 1

4. ANS:  
 $\emptyset$

PTS: 1

5. ANS:  
 $x = 25$

PTS: 1

6. ANS:  
 $x = 9$

PTS: 1

7. ANS:  
 $x = -4$

PTS: 1

8. ANS:  
 $x = 4, 5$

PTS: 1