Math 1 **10.4 Solving Radical Equations** Unit 6

Equations with radicals that have variables in the radicand are called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. We solve these equations by raising each side of the equation to a power equal to the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ to eliminate that radical.

**Example 1:** Solve

**You Try!** Solve

**Example 2:** Solve

**You Try!** Solve

**Example 3:** Solve 

**You Try!** Solve 

**Identifying Equations with Extraneous Solutions**

Sometimes when we check radical equations, the solution *doesn’t work*. We call these types of solutions \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Example 4:** Solve 

**You Try!** Solve 

**Practice:** Complete the following problems in class for credit!

1. Solve
2. Solve
3. Solve
4. Solve
5. Solve 
6. Solve 
7. Solve
8. Solve
9. Solve
10. Solve 