

Name \_\_\_\_\_

## Simplifying Radicals 2

**Directions:** Simplify the following. Assume that all variables are nonnegative.

1.  $\sqrt{98} =$  \_\_\_\_\_

2.  $\sqrt{80} =$  \_\_\_\_\_

3.  $-\sqrt{12} =$  \_\_\_\_\_

4.  $3\sqrt{8} =$  \_\_\_\_\_

5.  $\sqrt{121} =$  \_\_\_\_\_

6.  $\sqrt{40} =$  \_\_\_\_\_

7.  $4\sqrt{64} =$  \_\_\_\_\_

8.  $\sqrt{10} =$  \_\_\_\_\_

9.  $\sqrt{196} =$  \_\_\_\_\_

10.  $\sqrt{x^4} =$  \_\_\_\_\_

11.  $3\sqrt{x^7} =$  \_\_\_\_\_

12.  $\sqrt{16p^6} =$  \_\_\_\_\_

13.  $\sqrt{-75x} =$  \_\_\_\_\_

14.  $\sqrt{32x^8} =$  \_\_\_\_\_

15.  $4\sqrt{m^3n^9} =$  \_\_\_\_\_

16.  $\sqrt{144x^4y^9} =$  \_\_\_\_\_

17.  $-5\sqrt{13x^3} =$  \_\_\_\_\_

18.  $\sqrt{500} =$  \_\_\_\_\_

19.  $2\sqrt{54} =$  \_\_\_\_\_

20.  $\sqrt{225} =$  \_\_\_\_\_

21.  $\sqrt{150} =$  \_\_\_\_\_

22.  $\sqrt{-150} =$  \_\_\_\_\_

23.  $\sqrt{6} =$  \_\_\_\_\_

24.  $\sqrt{45} =$  \_\_\_\_\_

25.  $\sqrt{9} =$  \_\_\_\_\_

26.  $5\sqrt{81} =$  \_\_\_\_\_

27.  $\sqrt{90} =$  \_\_\_\_\_

28.  $\sqrt{8m^5} =$  \_\_\_\_\_

29.  $-2\sqrt{49x^4} =$  \_\_\_\_\_

30.  $\sqrt{45m^{11}} =$  \_\_\_\_\_

31.  $\sqrt{36x^8y^{12}} =$  \_\_\_\_\_

32.  $-\sqrt{28p^5q^3} =$  \_\_\_\_\_

33.  $3\sqrt{25m^7n^{14}} =$  \_\_\_\_\_

34.  $\sqrt{19p^9} =$  \_\_\_\_\_