

# Algebra II Worksheet #1 Unit 5 page 1

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Express each of the following radicals in simplest form.

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

2.  $\sqrt[3]{1000} =$  \_\_\_\_\_

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

4.  $\sqrt[3]{-729} =$  \_\_\_\_\_

5.  $\sqrt{64} =$  \_\_\_\_\_

6.  $\sqrt[3]{64} =$  \_\_\_\_\_

7.  $\sqrt{81} =$  \_\_\_\_\_

8.  $\sqrt[3]{81} =$  \_\_\_\_\_

9.  $\sqrt{125} =$  \_\_\_\_\_

10.  $\sqrt[3]{125} =$  \_\_\_\_\_

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

12.  $\sqrt[3]{80} =$  \_\_\_\_\_

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

14.  $\sqrt[3]{500} =$  \_\_\_\_\_

15.  $\sqrt{32} =$  \_\_\_\_\_

16.  $\sqrt[3]{-81} =$  \_\_\_\_\_

17.  $\sqrt{75} =$  \_\_\_\_\_

18.  $\sqrt[3]{128} =$  \_\_\_\_\_

19.  $\sqrt{72} =$  \_\_\_\_\_

20.  $\sqrt[3]{-24} =$  \_\_\_\_\_

## Algebra II Worksheet #1 Unit 5 page 2

Perform the indicated operations. Express your answers in simplest form.

21.  $\sqrt{48} + \sqrt{75} =$  \_\_\_\_\_

22.  $\sqrt{80} - \sqrt{45} =$  \_\_\_\_\_

23.  $\sqrt{72} + \sqrt{18} =$  \_\_\_\_\_

24.  $\sqrt{24} - \sqrt{54} =$  \_\_\_\_\_

25.  $\sqrt[3]{54} + \sqrt[3]{16} =$  \_\_\_\_\_

26.  $\sqrt[3]{375} - \sqrt[3]{24} =$  \_\_\_\_\_

27.  $\sqrt[3]{32} + \sqrt[3]{4} =$  \_\_\_\_\_

28.  $\sqrt[3]{40} - \sqrt[3]{135} =$  \_\_\_\_\_