

General Algebra II Worksheet #1 Unit 7 page 1 _____

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

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