

Name _____

Date _____

Practice Set 9.1
Finding Roots

Evaluate each expression, or state that the expression is not a real number.

1. $\sqrt{64}$ 1. _____

2. $\sqrt{-9}$ 2. _____

3. $-\sqrt{25}$ 3. _____

4. $\sqrt[3]{-27}$ 4. _____

5. $-\sqrt{64+36}$ 5. _____

6. $\sqrt{64} + \sqrt{36}$ 6. _____

7. $\sqrt{\frac{49}{100}}$ 7. _____

8. $\sqrt[3]{125}$ 8. _____

9. $\sqrt[5]{-1}$ 9. _____

10. $\sqrt{\frac{1}{36}}$ 10. _____

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11. $\sqrt[3]{64}$

11. _____

12. $\sqrt[4]{16}$

12. _____

13. $\sqrt{51-60}$

13. _____

14. $\sqrt{\frac{100}{4}}$

14. _____

15. $\sqrt[3]{-1000}$

15. _____

Use a calculator to approximate each expression. Round to three decimal places. If the expression is not a real number, so state.

16. $\sqrt{14}$

16. _____

17. $\sqrt{80}$

17. _____

18. $\sqrt{10}$

18. _____

19. $\sqrt{7-15}$

19. _____

20. $-\sqrt{24}$

20. _____