

NAME _____

Module 17 Simplifying Radical Expressions
Lesson 1 Simplifying Radicals



**additional
practice**

Simplify.

- | | |
|--|---|
| 1. $\sqrt{16}$ 4 _____ | 2. $\sqrt{100}$ 10 _____ |
| 3. $\sqrt{28}$ $2\sqrt{7}$ _____ | 4. $\sqrt{27}$ $3\sqrt{3}$ _____ |
| 5. $\sqrt{24}$ $2\sqrt{6}$ _____ | 6. $\sqrt{216}$ $6\sqrt{6}$ _____ |
| 7. $\sqrt{180}$ $6\sqrt{5}$ _____ | 8. $\sqrt{192}$ $8\sqrt{3}$ _____ |
| 9. $\sqrt{-27}$ not a real number _____ | 10. $-\sqrt{40}$ $-2\sqrt{10}$ _____ |
| 11. $-\sqrt{200}$ $-10\sqrt{2}$ _____ | 12. $-\sqrt{8}$ $-2\sqrt{2}$ _____ |
| 13. $-\sqrt{243}$ $-9\sqrt{3}$ _____ | 14. $\sqrt{-182}$ not a real number _____ |
| 15. $\sqrt[3]{40}$ $2\sqrt[3]{5}$ _____ | 16. $\sqrt[3]{250}$ $5\sqrt[3]{2}$ _____ |
| 17. $-\sqrt[3]{128}$ $-4\sqrt[3]{2}$ _____ | 18. $\sqrt[3]{-8}$ -2 _____ |
| 19. $\sqrt[3]{189}$ $3\sqrt[3]{7}$ _____ | 20. $\sqrt[3]{-81}$ $-3\sqrt[3]{3}$ _____ |

