

NAME \_\_\_\_\_

**Module 18** Solving Radical Equations  
**Lesson 1** Solving One-Step Radical Equations



**additional  
practice**

Solve.

- |   |  |
|---|--|
| 1. $\sqrt{x} = 5$ <b><math>x = 25</math></b> _____                        | 2. $\sqrt{b} = 1$ <b><math>b = 1</math></b> _____                          |
| 3. $\sqrt{r} = 10$ <b><math>r = 100</math></b> _____                      | 4. $\sqrt{t} = 11$ <b><math>t = 121</math></b> _____                       |
| 5. $\sqrt{x} = 14$ <b><math>x = 196</math></b> _____                      | 6. $\sqrt{m} = 13$ <b><math>m = 169</math></b> _____                       |
| 7. $\sqrt{w} = -3$ <b>no solution</b> _____                               | 8. $-\sqrt{v} = -3$ <b><math>v = 9</math></b> _____                        |
| 9. $-\sqrt{q} = -\frac{1}{2}$ <b><math>q = \frac{1}{4}</math></b> _____   | 10. $-\sqrt{p} = 1$ <b>no solution</b> _____                               |
| 11. $\sqrt{r} = -5$ <b>no solution</b> _____                              | 12. $-\sqrt{b} = -1.5$ <b><math>b = 2.25</math></b> _____                  |
| 13. $\sqrt[3]{x} = 5$ <b><math>x = 125</math></b> _____                   | 14. $\sqrt[3]{j} = -3$ <b><math>j = -27</math></b> _____                   |
| 15. $\sqrt[3]{j} = \frac{1}{2}$ <b><math>j = \frac{1}{8}</math></b> _____ | 16. $\sqrt[4]{j} = 5$ <b><math>j = 625</math></b> _____                    |
| 17. $\sqrt[4]{j} = -2$ <b>no solution</b> _____                           | 18. $\sqrt[4]{h} = \frac{1}{2}$ <b><math>h = \frac{1}{16}</math></b> _____ |
| 19. $\sqrt[4]{h} = -\frac{2}{3}$ <b>no solution</b> _____                 | 20. $\sqrt[4]{g} = 0.3$ <b><math>g = 0.0081</math></b> _____               |

