# Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_\_

**15.3 – Solving Equations with Square Roots**

Solve the equation. (Show your work.)

|  |  |
| --- | --- |
| 1. $\sqrt{x}=20$ $x=$ \_\_\_\_\_\_\_\_
 | 1. $\sqrt{2x}+2=6$ $x=$ \_\_\_\_\_\_\_\_
 |
| 1. $\sqrt{x+100}=25$ $x=$ \_\_\_\_\_\_\_\_
 | 1. $\sqrt{x+12}=5$ $x=$ \_\_\_\_\_\_\_\_
 |
| 1. $\sqrt{5x-6}+7=10$ $x=$ \_\_\_\_\_\_\_\_
 | 1. $\sqrt{x+2}+9=14$ $x=$ \_\_\_\_\_\_\_\_
 |
| 1. $\sqrt{2x}=4$ $x=$ \_\_\_\_\_\_\_\_
 | 1. $5\sqrt{x}=30$ $x=$ \_\_\_\_\_\_\_\_
 |
| 1. $\sqrt{8x-4}=2$ $x=$ \_\_\_\_\_\_\_\_
 | 1. $4\sqrt{3x+12}=12$ $x=$ \_\_\_\_\_\_\_\_
 |