**Day 5 – Solving by Square Roots (COMPLEX) Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Practice Assignment**

Directions: Solve each equation. Put your answers in decimal form AND simplest radical form (if necessary).

1. (x – 3)2 = 4 2. 5(x – 4)2 = 125

3. 4(x + 1)2 = 100 4. (x – 5)2 – 100 = 0

5. 5(x – 1)2 = 50 6. -3(x + 2)2 = -18

7. 5(x – 7)2 = 135 8. 8(x + 4)2 = 96

9. ¼(x – 8)2 = 7 10. (2x – 5)2 = 81

11. 2(x – 6)2 – 45 = 53 12. 5(x + 4)2 – 3 = 17

**Directions:** Solve for the indicated variable.

13.  solve for r 14. a2 + b2 = c2 solve for b

15.  solve for v 16. y = a(x – h)2 + k solve for x