

Day 6 – Solving by Square Roots (SIMPLE)
Practice Assignment

Name: _____

Directions: Solve each of the following equations.**Level 1: One Step, may have to simplify radicals**

1. $x^2 = 64$

2. $x^2 = 96$

Level 2: Two Step, no simplifying of radicals

3. $x^2 - 9 = 16$

4. $x^2 - 1 = 80$

Level 3: Three Step, may simplify radicals

5. $10x^2 + 8 = 498$

6. $2x^2 - 5 = 27$

7. $4x^2 + 7 = 23$

8. $2x^2 + 3 = 93$

9. $10x^2 + 6 = 326$

10. $2x^2 + 10 = 34$

Day 6 – Solving by Square Roots (COMPLEX)**Practice Assignment**

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

Level 4: Multi – Step, may simplify radicals

1. $(x - 3)^2 = 4$

2. $5(x - 4)^2 = 125$

3. $4(x + 1)^2 = 100$

4. $(x - 5)^2 - 100 = 0$

Level 5: Multi-Step, may simplify radicals

5. $5(x - 1)^2 = 50$

6. $-3(x + 2)^2 = -18$

7. $5(x - 7)^2 = 135$

8. $8(x + 4)^2 = 96$