

1.6 – Solve by Square Roots and Completing the Square**Solve by Square Roots**

1. $2x^2 = 242$

2. $3(x+1)^2 = 108$

3. $3x^2 + 10 = -98$

4. $-5(x-7)^2 + 5 = 125$

5. $\frac{1}{2}x^2 - 12 = 48$

6. $\frac{2}{5}(x-3)^2 = 2$

7. $(2x-5)^2 = 81$

8. $\frac{-x^2}{25} + 1 = 11$

Solve by Completing the Square

9. $x^2 + 2x = 9$

10. $x^2 - 12x = -28$

11. $x^2 + 20x + 104 = 0$

12. $2x^2 + 6x - 2 = 0$

13. $x^2 - 4x = 2x - 29$

14. $x^2 - 17x + 200 = 13x - 43$