

Algebra 2
Solving Quadratics Practice

Name _____
Date _____ Per _____

Solve each equation by taking square roots, factoring or completing the square.

1. $x^2 + 8 = 28$

2. $7x^2 = -21$

3. $(4k + 5)(k + 1) = 0$

4. $a^2 + 2a - 3 = 0$

5. $n^2 + 16n = -7$

6. $x^2 - 11x + 19 = -5$

7. $x^2 + 8x + 12 = 0$

8. $3 - 4x^2 = -85$

9. $2(x - 3)^2 = 8$

10. $m^2 - 12m + 26 = 0$

$$11. \frac{1}{4}(b - 8)^2 = 7$$

$$12. 6n^2 - 18n - 18 = 6$$

$$13. 5r^2 - 44r + 120 = -30 + 11r$$

$$14. n^2 - 4n = 2n + 35$$

$$15. b^2 + 2b = -20$$

$$16. (2r - 5)^2 = 81$$

$$17. r^2 - 4r - 91 = 7$$

$$18. 12s^2 - 5s = 2$$