

Name: _____ Hour: _____

Sec. 3.5A

(Solving by Factoring or Square Root Method)

Solve each quadratic equation and write your answer in exact form.

1. $x^2 - 5x - 14 = 0$

2. $5v^2 - 9v - 18 = 0$

3. $x^2 + 6 = 38$

4. $k^2 - 7k = 0$

5. $(x - 6)^2 = 9$

6. $m^2 = -3m - 2$

7. $9x^2 = 4$

8. $8x^2 - 6 = 47x$

9. $n^2 - n = 6$

10. $2(x + 1)^2 = 16$

11. $2n^2 = 4n$

12. $6b^2 = 294$

$$13. x^2 - x = 42$$

$$14. 9 + 10n = -n - 2n^2 - 3$$

$$15. n^2 + 3 = 67$$

$$16. 40n^2 - 32 = 8n$$

$$17. x^2 - 28 = 3x$$

$$18. 16x^2 = 49$$

$$19. v^2 - 7v = -12$$

$$20. r^2 = 36r$$

$$21. 3m^2 - 9m - 19 = 5 - 8m$$

$$22. x^2 = -11x - 30$$

$$23. 9x^2 = 1$$

$$24. -3(x+4)^2 = -15$$