

Math 3

Name _____

Solve by Completing the Square

Date _____ Per _____

Solve each equation by completing the square.

1. $x^2 - 2x - 15 = 0$

2. $x^2 + 2x = 35$

3. $2x^2 + 8x - 7 = -2$

4. $8x = 4x^2 - 1$

5. $2x^2 - 4x + 5 = 6$

6. $6x = 4x^2 - 1$

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

8. $x^2 - 7x = 18$

$$9. 3x^2 - 2x - 2 = 4$$

$$10. -7x = 3x^2 - 1$$

$$11. x^2 - 2x - 1 = 2$$

$$12. x^2 + 3x = 40$$

$$13. x^2 + 4x = 3$$

$$14. 7x = 4x^2 - 1$$