

HOMWORK: COMPLETE THE SQUARE

NAME: _____ DAY 15 DUE: _____

Solve the functions.

1. $y = x^2 - 20x + 100$

2. $y = x^2 + 12x + 35$

Solve the equations by completing the square.

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

4. $x^2 - 4x = 2x + 35$

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

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

7. $4x^2 + 8x + 280 = 0$

8. $6x^2 + 300 = 84x$

9. Solve by completing the square.

$$x^2 + 2x = -17$$

10. Solve by completing the square.

$$4x^2 + 16x = -12$$

11. Convert to vertex form.

$$y = 3x^2 - 12x + 8$$

12. Convert to vertex form.

$$y = x^2 + 12x + 35$$