

Math 3

Name _____

Putting in Vertex Form

Date _____ Per _____

Put each equation in vertex form by completing the square.

1. $y = x^2 + 16x + 71$

2. $y = x^2 - 2x - 5$

3. $y = x^2 - 12x + 46$

4. $y = x^2 + 5x$

5. $y = x^2 - 3x + 5$

6. $y = (x + 5)(x + 4)$

7. $y = x^2 + 10x + 33$

8. $y = x^2 + 6x + 3$

$$9. y = 2x^2 + 36x + 170$$

$$10. y = -x^2 - 9x - 3$$

$$11. y = -6x^2 - 12x - 13$$

$$12. y = -x^2 + 12x + 40$$

$$13. y = -2x^2 - 10x + 47$$

$$14. y = 3x^2 - 12x - 8$$