

## Parabols - Completing the square for vertex form

Date \_\_\_\_\_ Period \_\_\_\_\_

Use the information provided to write the vertex form equation of each parabola. Then list the vertex as an ordered pair.

1)  $y = x^2 - 20x + 94$

2)  $y = x^2 + 14x + 46$

3)  $y = x^2 - 6x + 10$

4)  $y = -2x^2 - 8x + 2$

5)  $y = 2x^2 - 4x + 9$

6)  $y = -x^2 - 12x - 28$

7)  $y = \frac{1}{3}x^2 - 4x + 14$

8)  $y = \frac{1}{4}x^2 - 3x + 12$