

**HW - Graphing Quadratics****Sketch the graph of each function. State the domain and range in interval notation.**

1)  $y = (x - 4)^2 + 1$

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

3)  $y = -(x - 4)^2 + 1$

4)  $y = -(x + 1)^2 - 1$

5)  $y = (x - 3)^2 + 2$

6)  $y = (x + 1)^2 + 4$

7)  $y = -2(x - 3)^2 - 3$

8)  $y = \frac{1}{2}(x - 4)^2 - 2$

9)  $y = -x^2 + 8x - 14$

10)  $y = 2x^2 + 16x + 34$

11)  $y = x^2 - 2x + 2$

12)  $y = x^2 + 8x + 19$

13)  $y = -x^2 - 2x + 3$

14)  $y = -x^2 - 8x - 20$

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

16)  $y = -2x^2 - 12x - 15$