

# 1.5 HW

**Write each equation in Standard Form and identify the following:**

- *Stretch or Compression*
- *Stretch or Compression Factor (If applicable)*
- *y-intercept*

**Vertex Form:**  $y = a(x - h)^2 + k$

**Standard Form:**  $y = ax^2 + bx + c$

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

2.  $f(x) = \frac{1}{2}(x + 2)^2 - 3$

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

4.  $f(x) = (x - 1)^2 + 4$