

Name \_\_\_\_\_

Determine the vertical stretch/shrink, reflections, horizontal shift, and vertical shift for each quadratic equation.

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

Vert. Stretch/Shrink: \_\_\_\_\_

Reflections: \_\_\_\_\_

Horizontal Shift: \_\_\_\_\_

Vertical Shift: \_\_\_\_\_

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

Vert. Stretch/Shrink: \_\_\_\_\_

Reflections: \_\_\_\_\_

Horizontal Shift: \_\_\_\_\_

Vertical Shift: \_\_\_\_\_

3.  $h(x) = -4(x-2)^2$

Vert. Stretch/Shrink: \_\_\_\_\_

Reflections: \_\_\_\_\_

Horizontal Shift: \_\_\_\_\_

Vertical Shift: \_\_\_\_\_

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

Vert. Stretch/Shrink: \_\_\_\_\_

Reflections: \_\_\_\_\_

Horizontal Shift: \_\_\_\_\_

Vertical Shift: \_\_\_\_\_

5.  $y = 3(x-2)^2 + 6$

Vert. Stretch/Shrink: \_\_\_\_\_

Reflections: \_\_\_\_\_

Horizontal Shift: \_\_\_\_\_

Vertical Shift: \_\_\_\_\_

6.  $f(x) = -\frac{1}{5}(x+3)^2 - 4$

Vert. Stretch/Shrink: \_\_\_\_\_

Reflections: \_\_\_\_\_

Horizontal Shift: \_\_\_\_\_

Vertical Shift: \_\_\_\_\_

7.  $y = (x-3)^2 - 4$

Vert. Stretch/Shrink: \_\_\_\_\_

Reflections: \_\_\_\_\_

Horizontal Shift: \_\_\_\_\_

Vertical Shift: \_\_\_\_\_

8.  $g(x) = 2(x-4)^2$

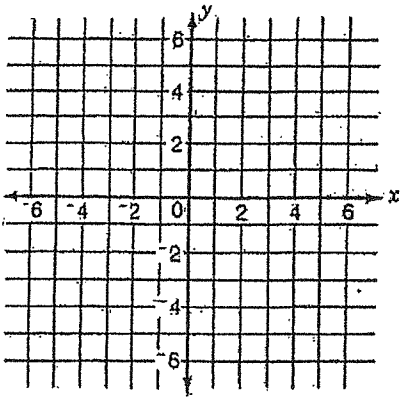
Vert. Stretch/Shrink: \_\_\_\_\_

Reflections: \_\_\_\_\_

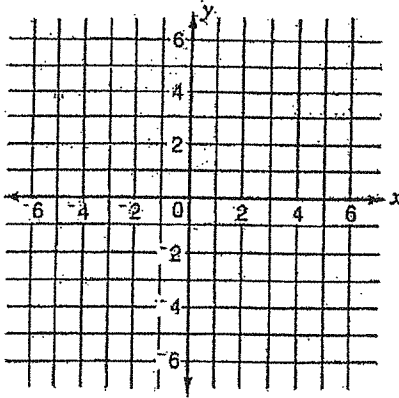
Horizontal Shift: \_\_\_\_\_

Vertical Shift: \_\_\_\_\_

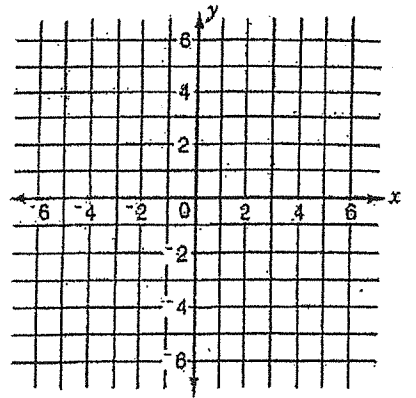
1.  $y = x^2$



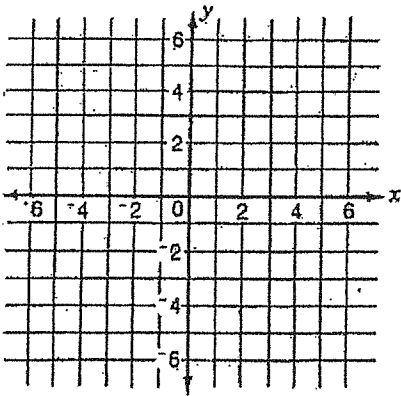
2.  $y = x^2 - 4$



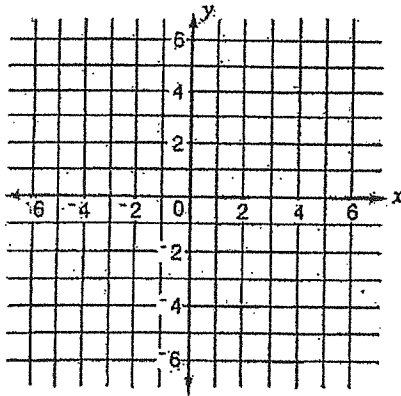
3.  $y = (x - 4)^2$



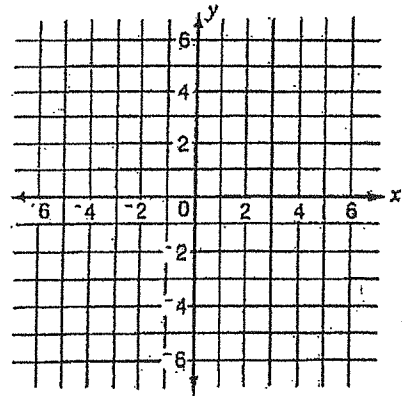
4.  $y = (x + 3)^2$



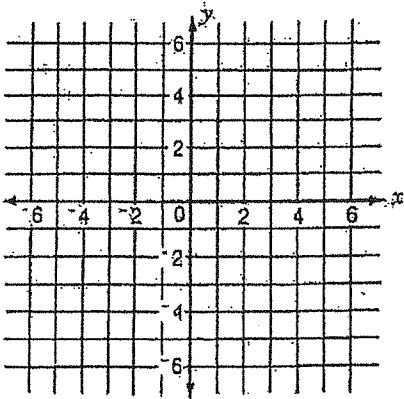
5.  $y = (x + 2)^2 - 3$



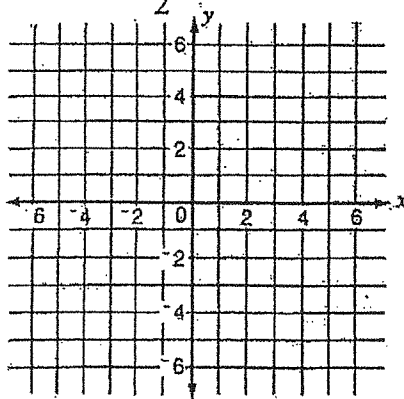
6.  $y = \frac{1}{2}x^2$



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



8.  $y = -\frac{1}{2}(x - 2)^2 - 3$



9.  $y = 2x^2 - 4$

