

STATION 1

Describe the transformations from the parent function.

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

STATION 2

Describe the transformations from the parent function.

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

STATION 3

Given the following descriptions of transformations to the quadratic parent function, write an equation.

Up 3, right 6, Vertically stretched by scale factor of 10

STATION 4

Given the following descriptions of transformations to the quadratic parent function, write an equation.

Down 20, left 12, Vertically compressed by a scale factor of $1/3$

STATION 5

Put the following quadratic equations in order from WIDEST to NARROWEST

$$y = \frac{1}{2}x^2 \quad y = -5x^2 \quad y = -\frac{2}{3}x^2 \quad y = 10x^2$$
$$y = \frac{1}{5}x^2 \quad y = -2x^2$$

STATION 6

Use coordinate notation to represent the transformations of the parent function.

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

STATION 7

Use coordinate notation to represent the transformations of the parent function.

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

STATION 8

What is the domain and range of the following Quadratic Function?

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

PAP Algebra 2 Transformations of Quadratic
Name: _____

Transformation Stations Worksheet

Station 1: _____

Station 5: _____

Station 2: _____

Station 6: _____

Station 3: _____

Station 7: _____

Station 4: _____

Station 8: _____