Lesson 3 Assessment

Function Deciphering

Sometimes we are given functions that we have to classify and decipher without any other information except what we know about Linear, Quadratic, and Exponential Functions. In this activity you will have to decipher whether a Function is Linear, Quadratic, Exponential, then graph it, and finally write any important information we need to know about the given Function.

Directions: For each function you will cut it out, glue in onto a piece of construction paper, and do/write the following on the construction paper.

- Graph the Function on the given graph paper and glue it onto the piece of construction paper
- Write a table of values
- and write the following important information:
    - For Linear Functions: y-intercept and slope
    - For Quadratic Equations: the vertex and zeros
    - For Exponential: the rate it is growing

$y = 2x^2 + 5$	$y = -\frac{3}{4}x + 2$
$y = 3x + 4$	$y = x + 4$
$y = x - 7$	$y = -3x + 2$
$y = 6x + 3$	$y = 2^x - 4$
$y = x^2 - 4$	$y = 3^x$

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