

Name: _____

Functions Activity

Given the equation, identify if it is quadratic, linear or exponential and give the Rate of Change (ROC) and the y-intercept (aka 0-step) and the second difference.

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

0-step (y-intercept):

First Difference (ROC):

Second Difference:

2) $q = 14.2x - 83$

0-step (y-intercept):

First Difference (ROC):

Second Difference:

3) $s = 4x + 9$ or $qs = 7$

0-step (y-intercept):

First Difference (ROC):

Second Difference: