SECTION 2.4: MODELING WITH QUADRATIC FUNCTIONS – PART 2

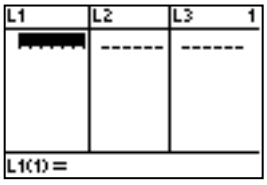
Homework: Practice 2.4A

Learning Targets:

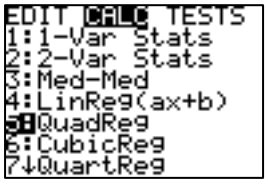
2e. Understanding of how to write quadratic functions given points, vertex, or intercepts.

How to Write a Quadratic Equation When Given Three or More Points

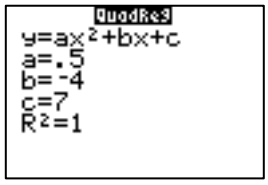
1. STAT ENTER enter the domain values if L_1 and the range values in L_2.



2. STAT select the CALC Menu, and choose QuadReg 5 ENTER



3. Write the equation in $y = ax^2 + bx + c$ form, (don't worry about the r value).



Example #1: Write an equation for the quadratic function that passes through (-4, 4), (0, 8), and (2, 22).

Example #2: Write an equation for the quadratic function that passes through (-3, -49), (1, -13), and (5, -105)