Numeric/Symbolic Exercises (Week 4):

**Please remember to comment your code and label your graphs!

1. Define the following function **numerically**, then apply the following exercises to it

$$y = 3x^3 + 42x^2 - 13x + 7$$

   a. Evaluate the function at X = 77
   b. Evaluate the function from X = 0 to X = 100
      i. Graph the values (make sure you label your graph accordingly!)

2. Define the following function, but this time **symbolically**, then apply the following exercises.

$$f(X, Y) = 7xy - 12x^2 + 8y^4$$

   a. Solve the function at X = 2 , Y = 4
   b. Evaluate the function on the range of Y = [0, 50] keeping X = 1.
      i. Graph the values from the previous exercise.