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 = 10

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, 1] with 100 points while keeping X = 1.
      i. Graph the values from the previous exercise where the answer to b is your y-values going from 0=>99