Octave Tutorial # 5: Let $p(t) = -1 + 3t - 2t^3$ – that is, p is a polynomial. Use Octave to compute the value of p at each of the entries of x. The first entry of this matrix should be p(7) since the first entry of x is 7. The last entry should be p(2) since 2 is the last entry of x.

Solution:

Your solution here!

Octave Tutorial #7: Plot the curves $y = Ce^x$ for C = 1, C = 1/2, C = 0, C = -1/2, and C = -1 over the range $-1 \le x \le 1$ all in the same figure. Add a helpful legend to your plot. Hand in a printout of your plot.

Solution:

Your code here!

Uncomment the next line and put your own figure in the file.

Octave Tutorial # 9: Let logistic(x) = $\frac{1}{1 + e^{-x}}$.

- a. Use Octave to define an inline function logisitic for this function.
- b. Verify that your function works correctly by computing logistic(0), logisitic(1), and logistic([0, 1]). Do you obtain the right answers? (Hint: if you have a error when you test with vector input, think about the dot operators .*, ./ and so forth.)
- c. Plot the logistic function over the range $-2 \le x \le 2$. Add a red square or diamond that marks the point (1, logistic(1)).

Hand in a transcript of the Octave commands you used in parts a) through c) as well as a printout of your plot.

Solution:

Your code here!

Uncomment the next line and put your own figure in the file.