Problem:

Solve the following initial value problem using MATLAB's ode45

$$\frac{dy}{dx} = yx^3 - 1.1y$$

where y(0) = 1.

Requirements:

- 1. Generate a graph of y vs x for x = 0 to 2.
- 2. Use a vector for x (this is what you use for tspan) when calling ode45 where the increment in x is 0.05. ode45 should return a vector of x and y values where the increment in x is 0.05 when you do this correctly (see the description of tspan with more than two entries on slide 7 of Lecture 26).

