In-Class Problem #4
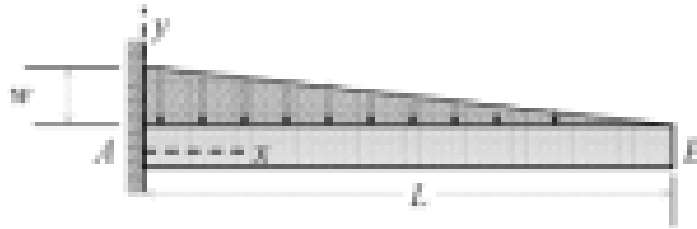
A beam is loaded and supported as shown in the figure below:

a. Derive the equation of the elastic curve y(x) in terms of w, L, x, E and I.
b. Determine the slope at the right end of the beam.
c. Determine the deflection at x = L