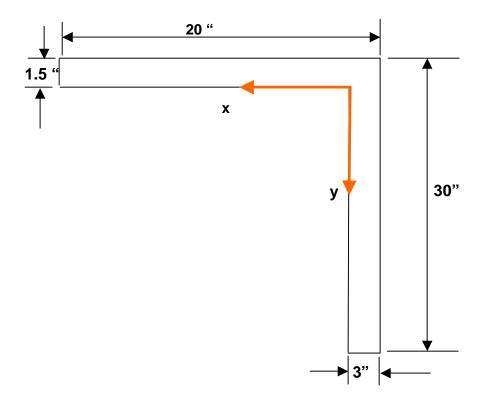
Problems Session 4

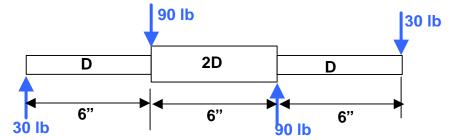
This assignment will reinforce what you have learned about computing the location of neutral axis, composite 2nd moments of area, and the use of singularity functions and superposition.

Compute the moment of inertia for the L-section about the centroid x-x and y-y axis.



Problem 2

Specify the diameter, D, of the solid shaft shown below, so that the deflection at the 90lb load is limited to 0.001 inch. The shaft is machined from steel.



Problem 3

Determine the required diameter to limit the deflection at midspan to 0.2 mm; the stepped shaft is machined from steel.

