TAM 211 Written Assignment 10 (due April 12th)

Note: Be sure to put each problem below on a separate page.

1. A channel and a plate are welded together, as shown below, to form a section that is symmetrical with respect to the y axis. Determine the centroid, \((\bar{x}, \bar{y})\) of the combined section measured from the bottom-center of the plate.

Hint: look online for properties of channel C8×11.5

2. The suspended sign is a homogeneous flat plate that has a mass of 130 kg. The support frame is a truss with negligible mass for each member. Determine the support reaction at B.