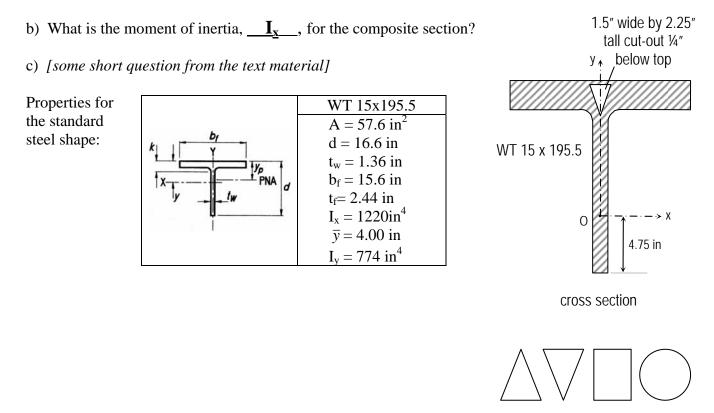
ENDS 231: Practice Quiz 5

Clearly show your work and answer.

A steel section must have a void drilled into it for a special application. A WT 15 x 195.5 cut T has been bored with a *(basic)* shaped hole as shown in the cross section diagram.

a) Where is the centroid located for the composite section with respect to the origin given?



possible basic shapes

Answers:

a) $\hat{x} = 0$ in , $\hat{y} = 7.76$ in

b) $I_x = 1203.9 \text{ in}^4$, $(I_y = 773.8 \text{ in})$

Disclaimer: Answers have NOT been painstakingly researched.