

CE 203-3 [072]

H.W. # 10 Final Answers

1) drawings

2) yes or no!

$$q = 66.2 \text{ lb/in} \quad \text{or } ?!$$

3) a- $V_{max} = 948.4 \text{ N}$ or ?!

b- $\tau_{shear} = 0.198 \text{ MPa}$ or ?!

4) (a) $\sigma_{max} = 168.5 \text{ T}_{\text{or}} \text{ C}$ or ?!

$$S_{max} = 144 \text{ mm} \quad \text{or } ?!$$

(b) $\sigma_{max} = 188.8 \text{ MPa}$ $T_{\text{or}} \text{ C}$ or ?!

$$S_{max} = 159 \text{ mm} \quad \text{or } ?!$$

\Rightarrow (a) or (b) better in bending

(a) or (b) better in shear

5)

$$W_{max} = 785 \text{ or } 29.4 \text{ or } 62.2 \text{ kN/m}$$

OR ?!