

CE 203-3 (072)

HW # 6 Final Answers

1) $P \approx 1.205$ or 0.603 k or ?!
 $\tau_{max} = 7.272$ or 3.615 ksi or ?!

2) $\tau_{max} = \frac{16}{\pi} \frac{a T_0}{l d^3}$ or $\frac{16}{\pi} \frac{b T_0}{l d^3}$ or ?!

$\left(\begin{array}{l} \tau_A = \frac{b}{l} T_0 \text{ or } ?! \\ \tau_B = \frac{a}{l} T_0 \text{ or } ?! \end{array} \right)$

3) $T_{O_{max}} = 843.7$ or $1050.$ or ?!

4) $d_{min} \approx 38.04$ or 43.48 or ?!

5) a - $\tau_{max} \approx 11.32$ or 6.791 or ?!

b - $\Phi_{A/C} = 0.1080 \text{ rad}$ (6.191°)
or 0.03001 W (1.719°)
or ?!