Homework #2

Due Thu 9/10/09

Team Number:			
Names: James Kristoff, (Calvin Spith,	Joseph	Michael
	7	Kav	olina Nowak
Hand in this sheet (cover sheet) with y	your solution		

- Textbook Problem 4.32 (Review on Static Body Stresses)
- 2. Textbook Problem 4.37 (Review on Static Body Stresses)
- 3. Textbook Problem 4.58 (Review on Static Body Stresses)
- 4. Textbook Problem 4.66 (Review on Static Body Stresses)
- 5. Textbook Problem 4.72 (Review on Static Body Stresses)



4.32	Known: P= 100016
NA 10 a march 2 march	Find: ony
	Schenatic & given data:
	8"
	811 7 - Y=3.611 A 211 - Y=0
	$\sqrt{5}$
	7/2
	Assumption: Static Loading
	40 h 2 1 (13 - 2 - 5 h) 3 60 h 3 (38//E) 3 (38//E) 3
,	Analysis: $A = 6.125 \text{ in}^2 \text{ j} \text{ I}_{X} = \frac{6.1125 \text{ in}^2}{12} = \frac{(32)(8)^3}{12} = \frac{(32)(8)^3}{12$
	$\sigma = \frac{My}{I} = \frac{1}{2} M = \frac{1}{2} \frac{1}{60.01 \text{ in } 9}$
	1 1cc0/b T - V (4=0 5c016. (1=4in
	Is y=1/0 (60.01in4)(3.5)) Y(3.5)dy
1/	$T = \frac{V}{Ib} \int_{Secold}^{V=V} V dA = \frac{Scold}{(6c.01in^4)(3.5)} \int_{Secold}^{V=4in} V dA = \frac{V}{(6c.01in^4)(3.5)} \int_{Secold}^{V=4in} V$
500	
*	$T = \overline{16} \int_{Y=Y_0}^{Y=0} Y dA = \frac{50016}{(60.01:04)(0.37510)}$
M	3.5"
	$\left[\int_{-\infty}^{3.5''} Y(3'') dy + \int_{-3.5}^{4} Y(3.5'') dy \right]$
	=> T = 22.22 [0.375 \frac{1}{2}]_{0,7}^{3.5} = 196.8 \frac{1}{192}
	=> 1 = 22.22 [0.375 = 10 + 3.5 = 13.5] = 196.8 ==
**************************************	Omera = 191 C16 Approx.
	Omy = 196.8 16 50016 - 166.7 16 (0.375)(8in)
	actuall is greater than approximation.









