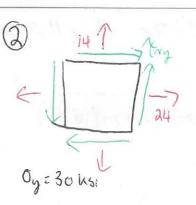
Benjam Missen June 1/200 Assignment 3 900 a) Von Miss 02 > (4660705) 7+(108,3813)2-(-66,6705)(108,3813) 250 = 1525537 FS TA=-2(900) (200) -3 60000 Nomm 1.64 = FS TT = 3 60 000. 15 b) Tresca #/2[154-104] = 184.6215 Trux = Or FS (408.3813766.0708) = Oy 2M=0, MA+900(160) -900(250) =0 FS (174.45181) = 0y=250 MA: 90000 N.mm FS= 154385 O8 = 90000:15 节(154104) c) Rankine =4231 N/mm2 Oy: FS. Og. 3313 One = 42.31 = 21.1554 250 108.3813 = F5 R= (21,16542+ L84,6215)2 FS=2.31 = 87.2259 N/mm 108.3813 -66.0705



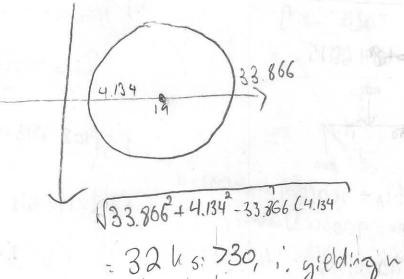
a)
$$\sigma_{ave} = 24 + 14 = 19$$

$$R = \sqrt{5^2 + 62}$$

$$= 7.81$$
11.19.
$$19.5 = 26.81$$

c)
$$R = \sqrt{5^2 + 14^2}$$

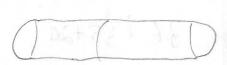
= $\sqrt{221} \sim 14.866$
 $\sigma_1 = 19 + 14.866$
 $\sigma_2 = 19 - 14.866$



- 32 ks: 730, i. gielding nould

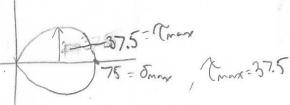
ocur. 30 = FS of 1.28645 Oy = (322+62-63216) = 13 = 29.46 ks:

> Since 29.46 (30, no gielding 20 = F5 of 1.0183



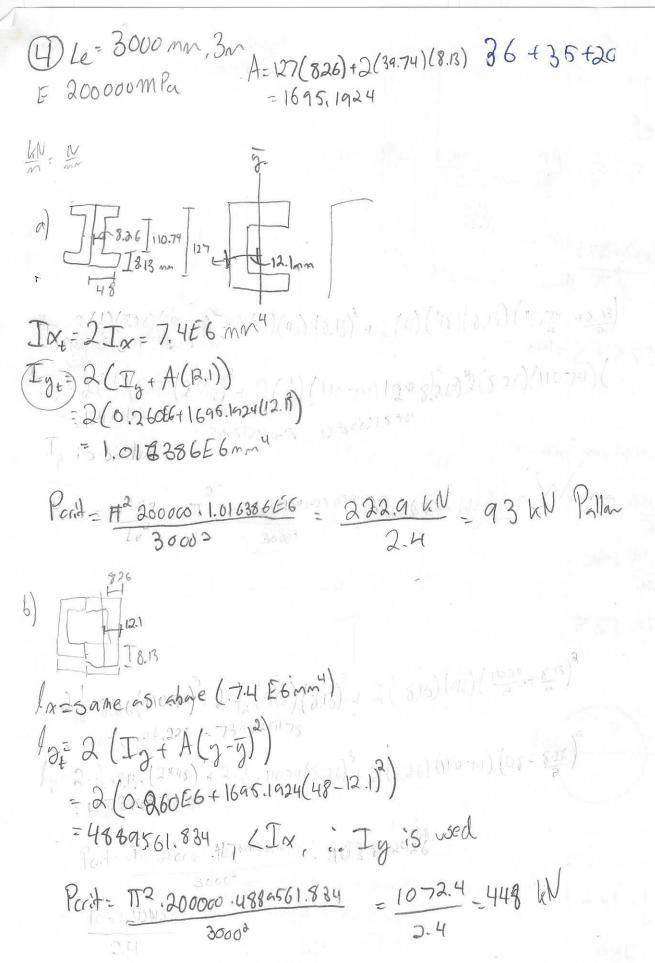
X-Section -

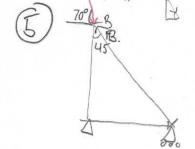




7575.250 15.33

Von Mises





$$e = \frac{4}{[3.578-1]}$$
 $e = 1.552mm$

b)
$$C=1$$
 $C=1$ C