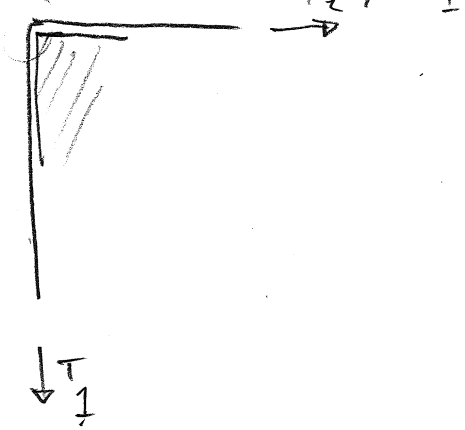
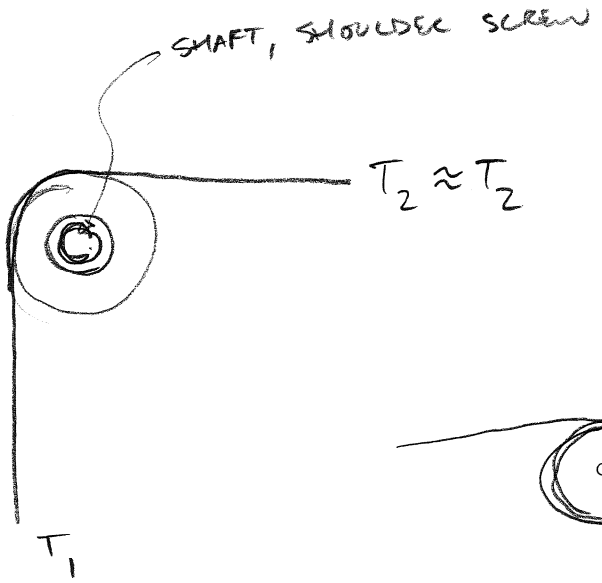
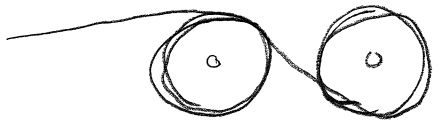
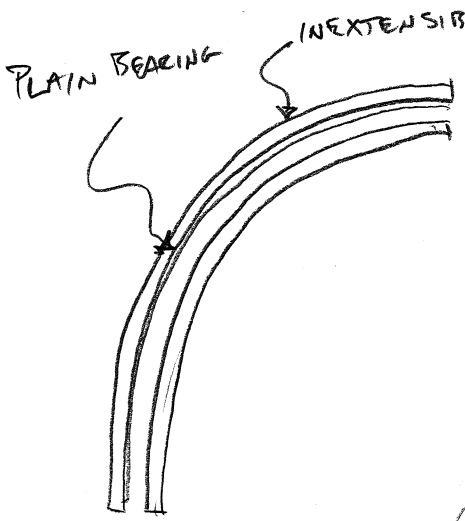
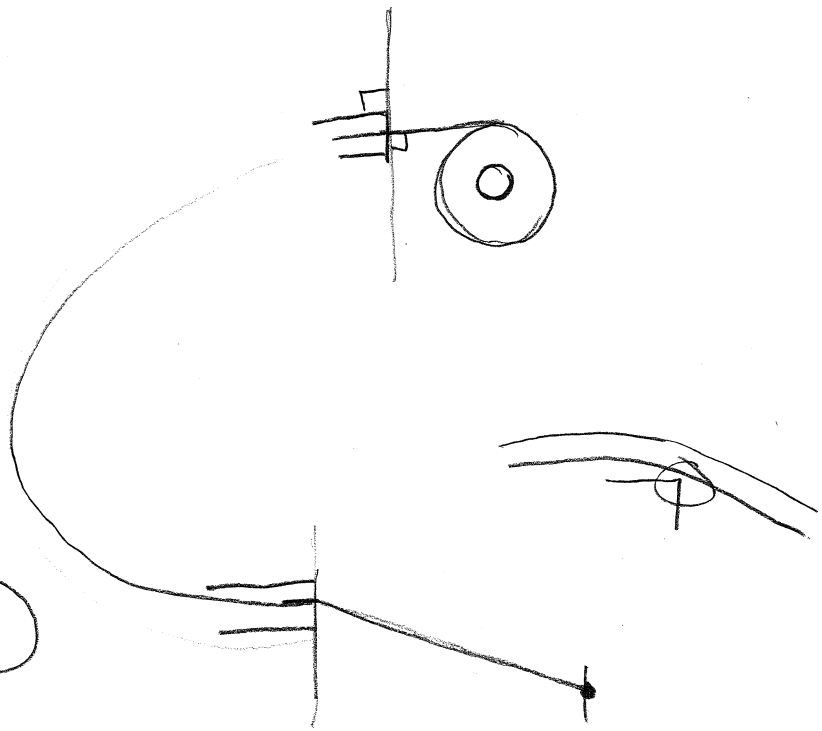
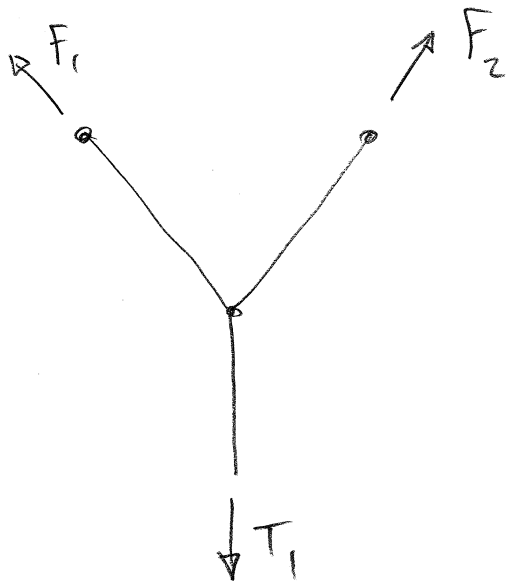


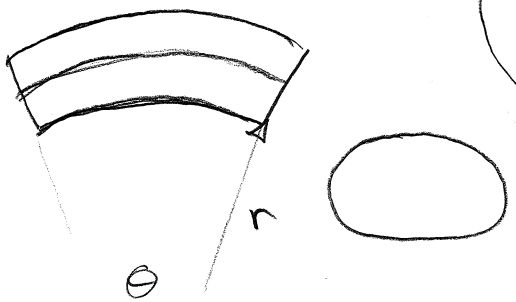




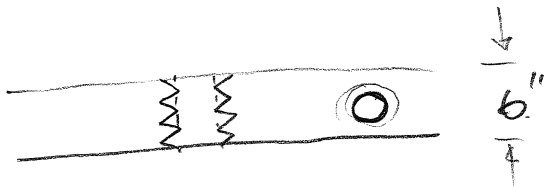








T_{MAX} / T_{ULT} GREATEST STRESS CONCENTRATION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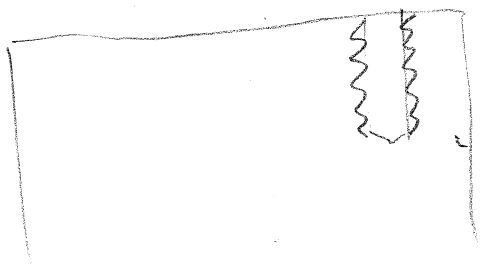

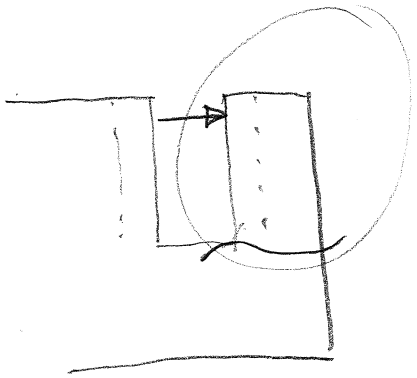

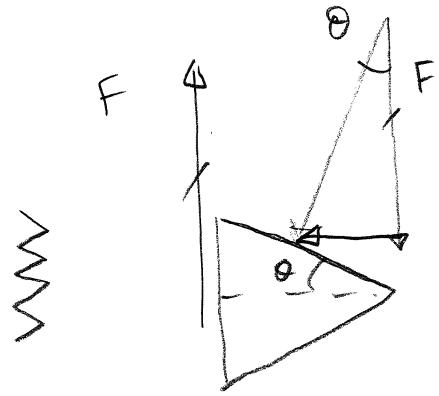
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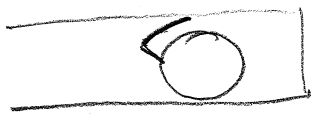
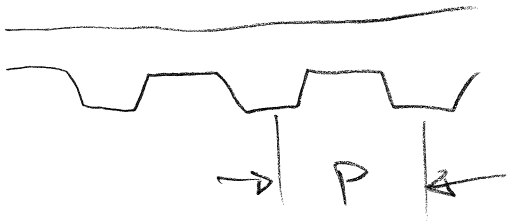
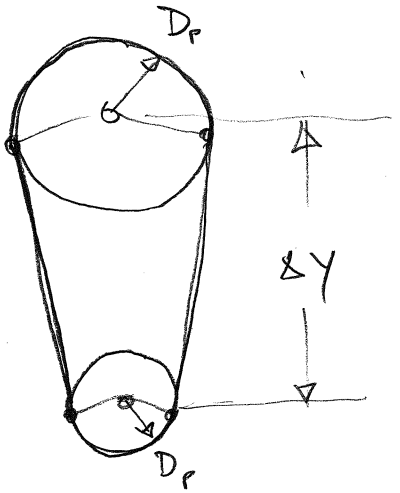
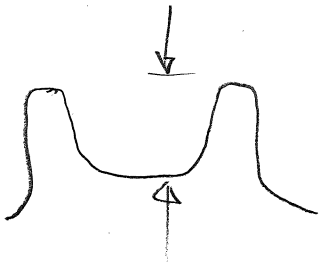


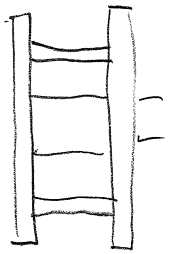


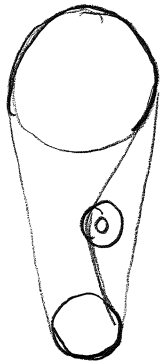
$L_{BELT} = N \cdot P$

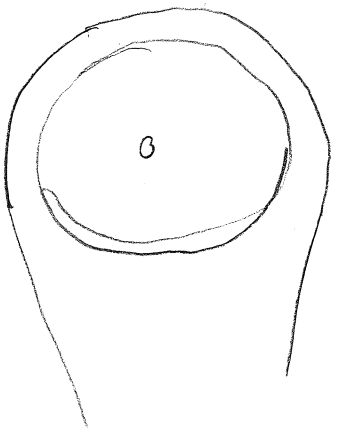
$L_{CHAIN} = N \cdot P$

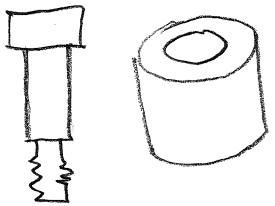


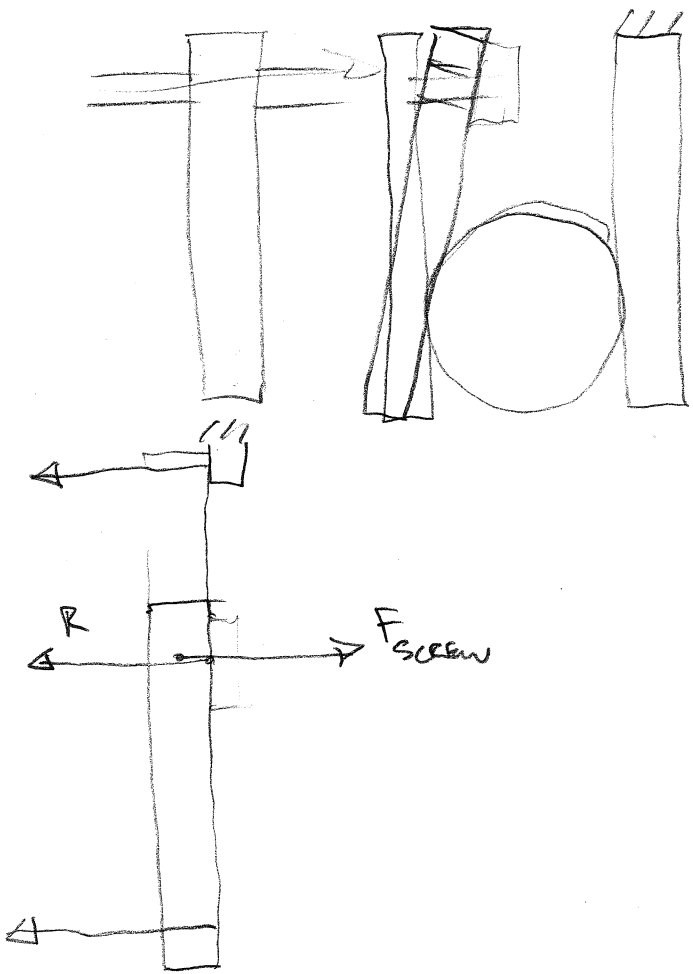




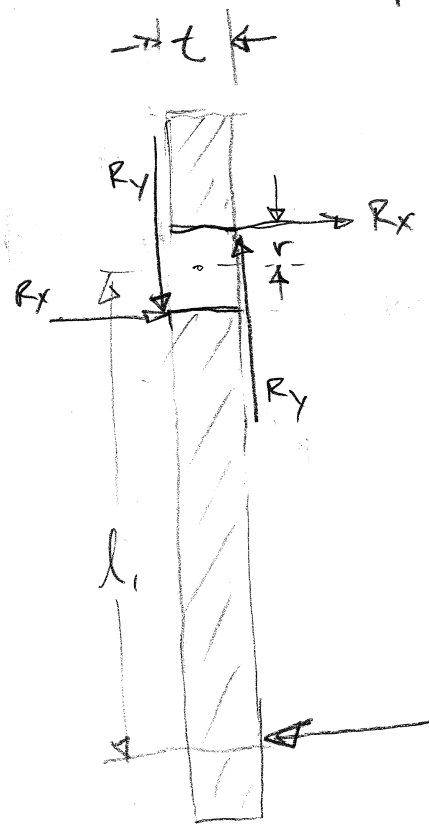








$l_1 \gg r \approx t$



$R_x \leq \mu \cdot R_y$

$\sum F_x = 2R_x - F$

$\therefore R_x = \frac{F}{2}$

$\sum M_z = -F l_1 + R_y t$

~~$+R_x r - R_x r$~~

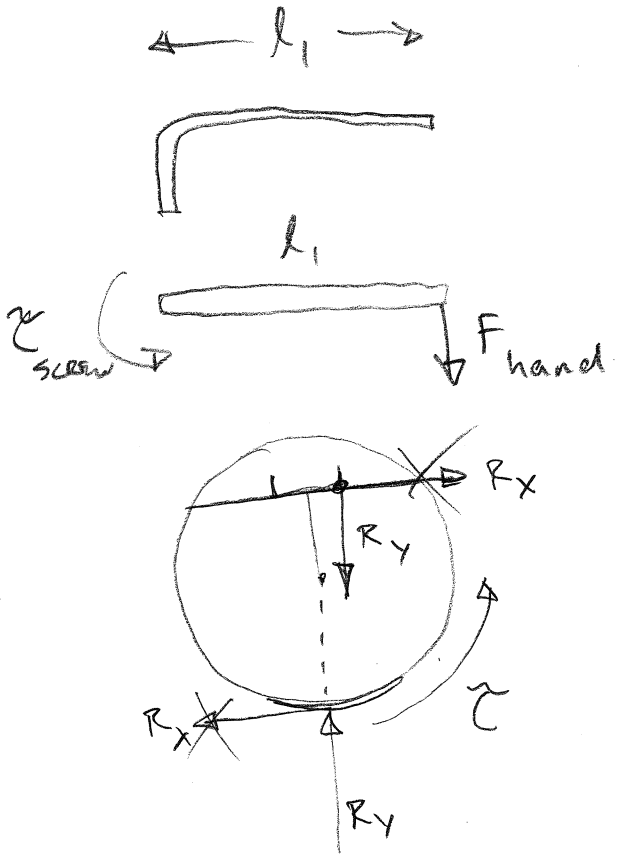
$$R_y = \frac{l_1}{t} F$$

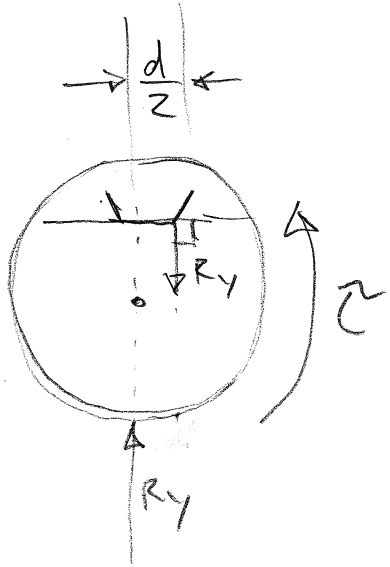
$R_x = \frac{F}{2}$ $\quad R_x \leq \mu \cdot R_y$

$R_x \leq \mu \cdot \frac{l_1}{t} \cdot F$

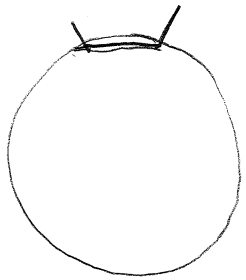
$\frac{F}{2} \leq \mu \cdot \frac{l_1}{t} \cdot F$

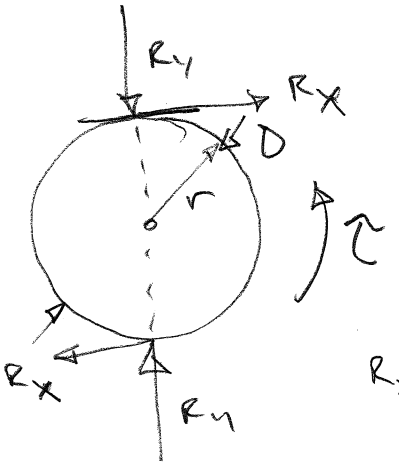
CONDITION FOR BINDING → $\frac{1}{2} \leq \frac{\mu l_1}{t}$





$$\sum M \Rightarrow \tau = R_y \cdot \frac{d}{2}$$

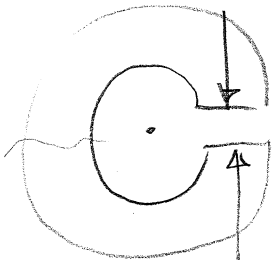


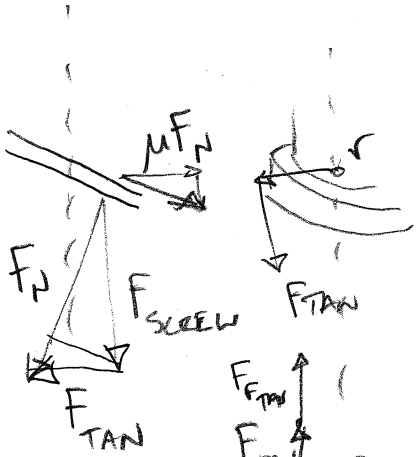


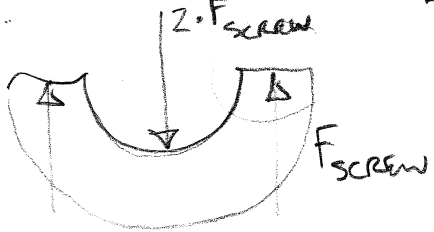
$$R_x \leq \mu R_y$$

$$\sum M \Rightarrow \quad \tau = R_x D$$

$$\tau \leq \mu R_y D$$







$$\Rightarrow \tau_{SCREW} = r \cdot F_{TAN}$$