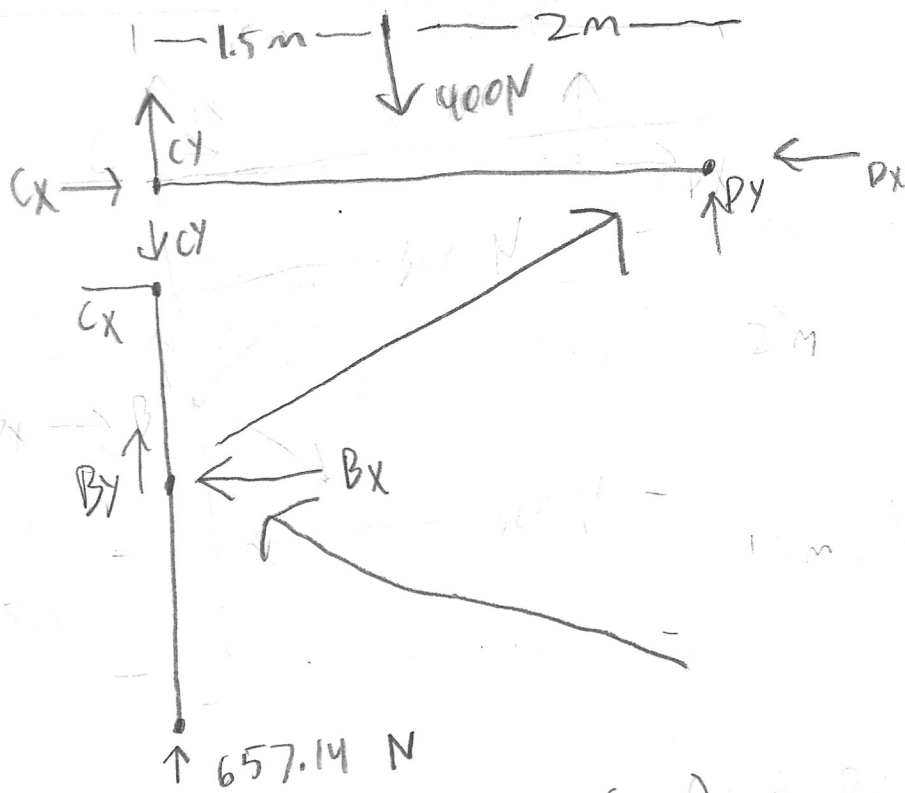


3.)



$$M_c = -(1.5)(400) + D_y(3.5)$$

$$D_y = 171.43 \text{ N}$$

$$\sum F_y = -400 + 171.43 + C_y = 0$$

$$C_y = 228.57 \text{ N} \quad C_x = D_x$$

$$\sum F_y = 657.14 - 228.57 + B_y = 0$$

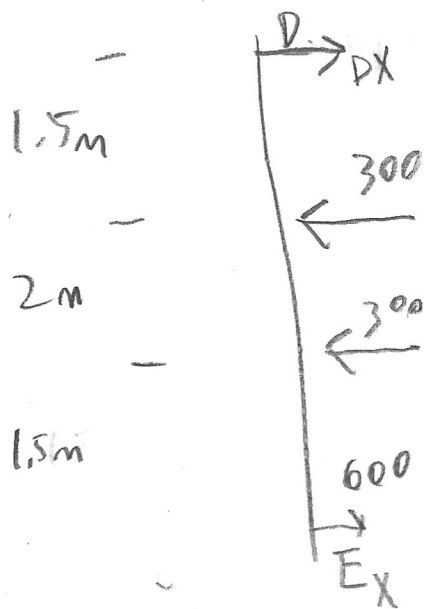
$$B_y = -428.57 \text{ N}$$

$$\sum F_x = C_x + B_x = 0$$

$$D_x = 0 \quad C_x = 0 \quad B_x = 0$$

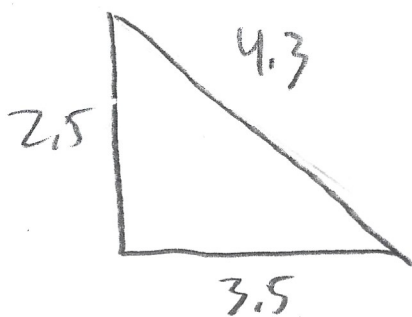
$$\sum F_x = -300 + -300 + F_x = 0$$

Ex 3000 cut
F1: X 3000



$$\sum F_x = -300 + -300 + 600 + D_x$$

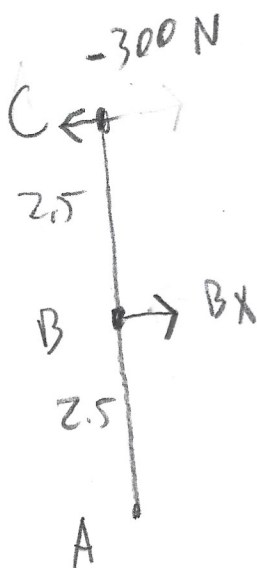
$$D_x = 0$$



$$D_x = 0.00 \text{ N}$$

$$C_x = 0.00 \text{ N}$$

$$B_x = 0.00 \text{ N}$$



$$M_B = 300(2.5) - 300(5) = -750$$

$$M_C = 300(5) - 300(2.5) = 750$$