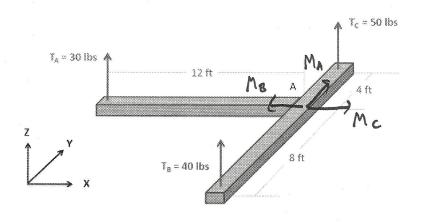
What are the moments that each of the three tension forces exert about point A (the point where the beams come together)?



TA

$$M = F \times d = (30)(12)$$
 $M_A = 360$  et lbs

TR

.

$$M = F \times d = (40)(8)$$
  
 $M_0 = 320 \text{ ft lbs}$ 

T

$$M_c = 200$$
 ft lbs
$$M_c = 200, 0, 0 \text{ ft lbs}$$