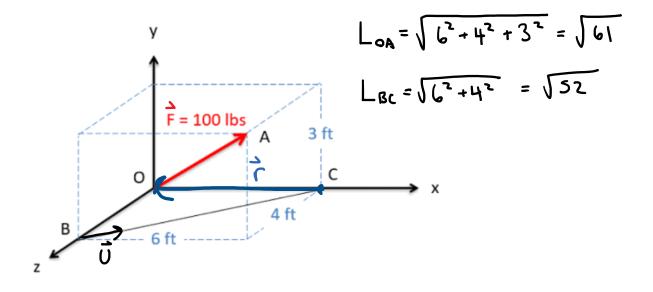
Question 2

A 100 lb force acts along the line connecting points O and A in the diagram below. What moment does this force exert about the axis connecting points B and C?



$$\overrightarrow{F} = \left[\frac{6}{161}, \frac{3}{161}, \frac{4}{160} \right]$$

$$\vec{M} = \vec{r} \times \vec{F} = \left[0, \frac{2400}{\sqrt{c_1}}, -\frac{1800}{\sqrt{c_1}}\right]$$

$$\frac{3}{0} = \left[\frac{6}{\sqrt{52}}, 0, -\frac{4}{\sqrt{52}}\right]$$

$$M = \vec{U} \cdot \vec{M} = + \frac{3600}{\sqrt{793}} = \left[127.8 \text{ ft lbs} \right]$$