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 ?


$$
\begin{aligned}
& \vec{r}=[6,0,0] \\
& \vec{F}=\left[100 \frac{6}{\sqrt{61}}, 100 \frac{3}{\sqrt{61}}, 100 \frac{4}{\sqrt{61}}\right] \\
& \vec{M}=\vec{r} \times \vec{F}=\left[0,-\frac{2400}{\sqrt{61}}, \frac{1800}{\sqrt{61}}\right] \\
& \vec{U}=\left[\frac{6}{\sqrt{52}}, 0,-\frac{4}{\sqrt{52}}\right] \\
& M= \\
&
\end{aligned}
$$

