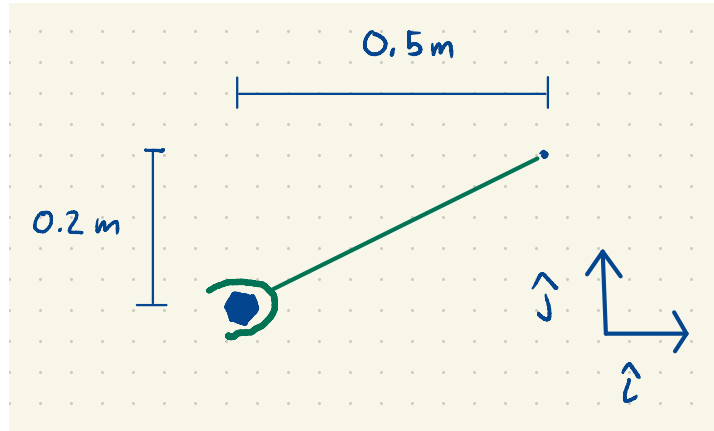


A wrench is tightening a nut as in the diagram below. The nut is located at the origin and the far end of the wrench is located at the point $\mathbf{r} = \langle 0.5, 0.2, 0 \rangle$ with distance measured in meters. A force vector \mathbf{F} is applied: \mathbf{F} points in the direction $\langle 1, -1, 0 \rangle$ and has total length of 100 N.



4. Add a force vector in the diagram. It should point roughly in the right direction. Then determine if the applied torque is pointing into or out of the page.

5. Compute the torque vector. Please remember to include units!