1. The tension in the crane’s cable is $T = 40 \, \text{kN}$.

   a) Calculate the moment about point $O$ due to the force $T$. Express the result in vector notation.
   b) Calculate the magnitude of the moment from part a).
   c) Calculate the direction of the moment vector from part a), i.e. the unit vector in the direction of the moment vector from part a).
   d) Calculate the angle that the moment vector from part a) forms with the $+x$-axis.

2. Textbook, Problem 3.56