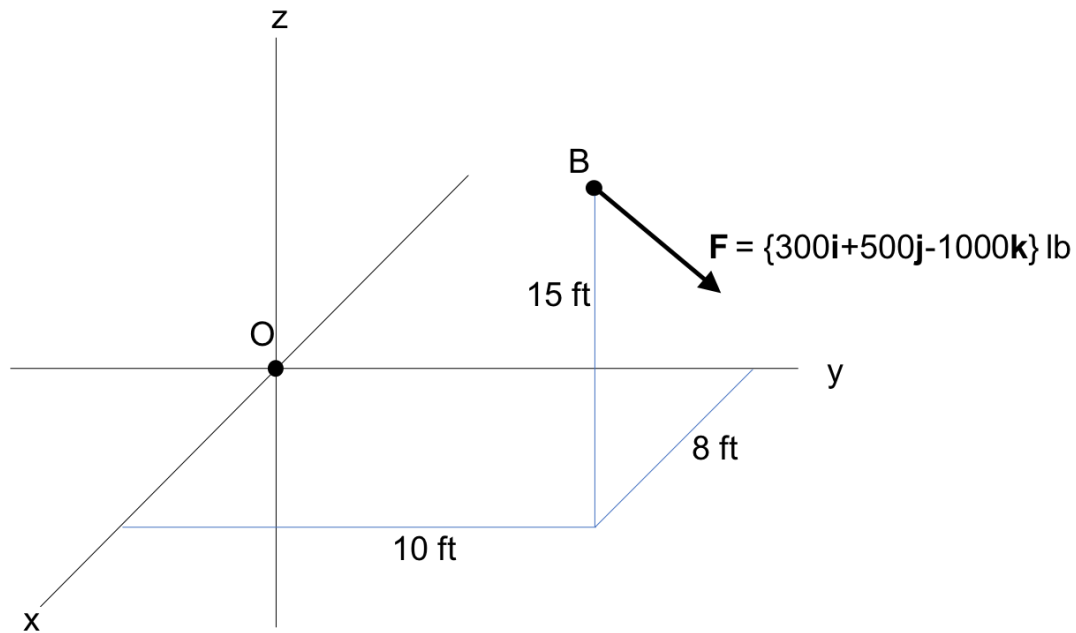
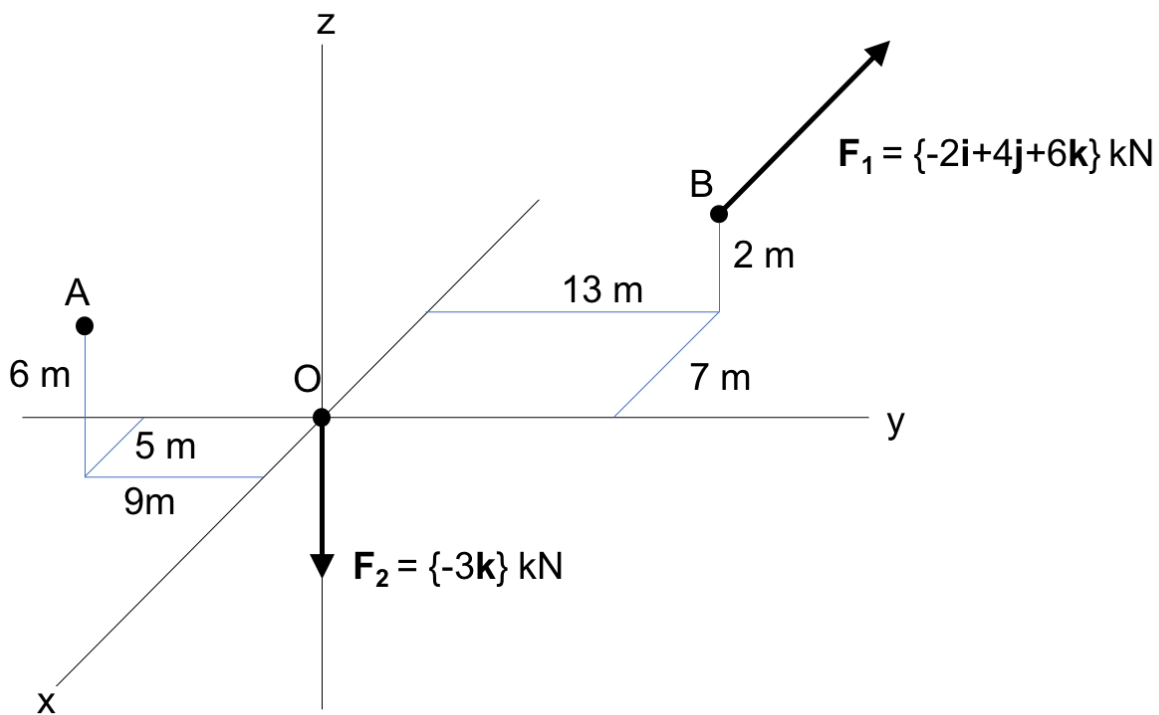


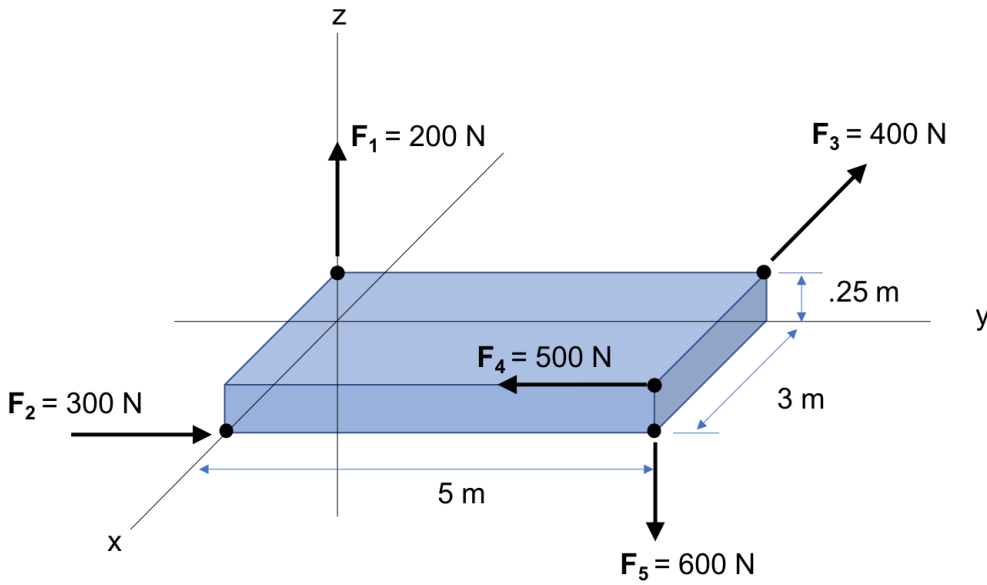
1. Determine the moment that the force  $\mathbf{F}$  creates about point O. Express the result as a Cartesian vector.



2. Determine the resultant moment about point A. Express the result as a Cartesian vector.



3. Five forces are applied to the plate. Determine the resultant moment of the forces about the x-axis, the y-axis, and the z-axis.



4. Pipe OAB is subjected to a force of 10 kN applied at B. The force is applied in the direction of C. Determine the magnitude of the moment of the force  $\mathbf{F}$  about segment OA of the pipe.

