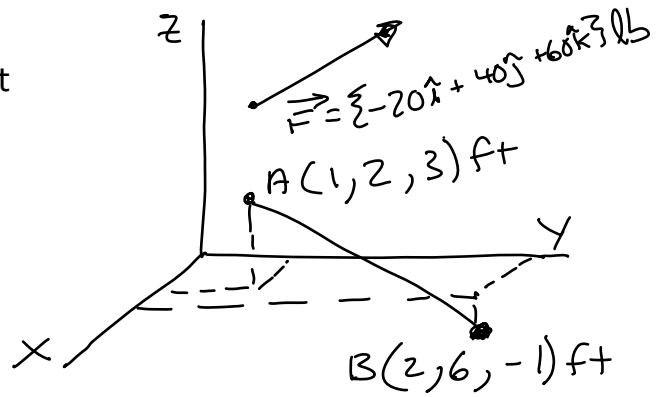


Resolving forces into components along a line of action

Problem Statement: Determine the component of the force along line AB. Express your answer as a cartesian vector.



- 1.) Resolve the force into a cartesian vector.
- 2.) Determine the unit vector for the component line of action.
- 3.) Take the dot product of the force vector and the unit vector to get the magnitude of the component.
- 4.) Multiply the magnitude of the component by the unit vector to get the component in cartesian vector form.