

2.4 A frame {B} is located initially coincident with a frame {A}. We rotate {B} about  by 30 degrees, and then we rotate the resulting frame about  by 45 degrees. Give the rotation matrix that will change the description of vectors from to 

Solution:

Based on the requirement, we need to get R whether

 = R.

It means R = R1 .R2

R1 = R(,135 degrees), we rotate {B} about  by 135 degrees

R2 = R(,160 degrees) we the resulting frame about by 160 degrees



2.12. A velocity vector is given by 

Given



compute AV

Solution

