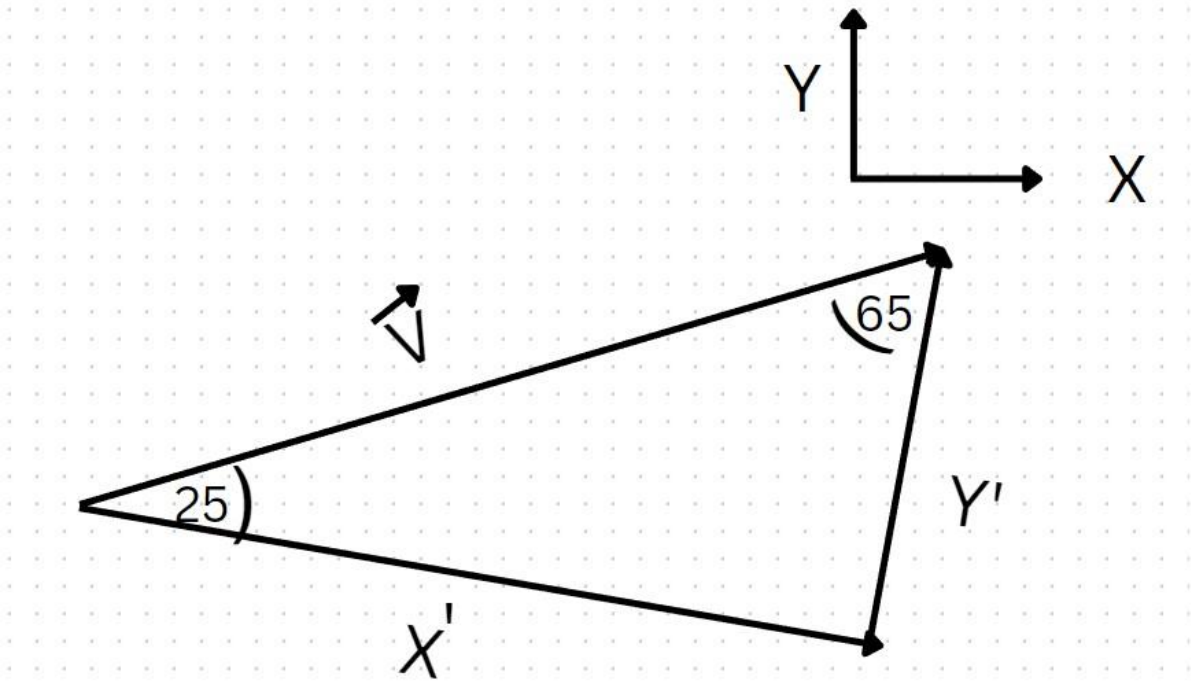

As can be seen in the picture the velocity vector makes 15 degrees angle with the x-axis ,and the x'-axis makes -10 degrees with the x-axis. So, the velocity vector makes a 25 degrees angle with the x'-axis as shown in the figure. By decomposing V we get V(x')=V*cos(25) and V(Y')=V*sin(25).