## Answer on Question \#58242-Physics-Other

The direction of vector in space is specified by

## Solution

The direction of vector in space is specified by two angles. These angles would incline with the reference axes namely $x, y$ and $z$ axes. The angles usually denoted as $\alpha, \beta$ and $\gamma$.

Definitely

$$
\cos ^{2} \alpha+\cos ^{2} \beta+\cos ^{2} \gamma=1
$$

So, if alpha and beta are given then gamma could be found by the above condition and the direction of vector in space could be specified easily. Hence, $\cos \alpha, \cos \beta$ and $\cos \gamma$ have been named as direction cosines

Answer: two angles.

