

DIRECTION COSINES & DIRECTION RATIOS

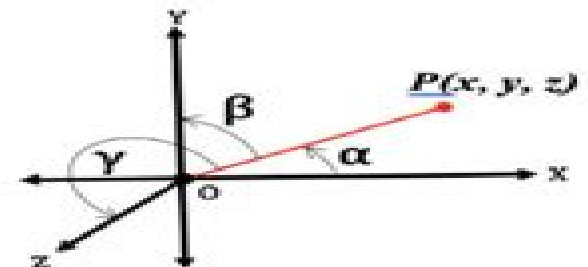
i) **Direction Angles:** As we have studied in two dimensional geometry each line is having slope in terms of tangent of the angle made by the line with positive direction of X axis. Similarly in three dimensional geometry if a directed line is passing through origin makes angles α , β and γ with positive directions of X, Y and Z axes respectively then the angles are known as direction angles. (angles are shown in adjacent figure)

ii) **Direction Cosines:** The cosine of these directed angles, $\cos \alpha$, $\cos \beta$, and $\cos \gamma$ are termed as direction cosines of the line with general notation l , m and n respectively. Direction cosines are generally put in square bracket as like $[l, m, n]$.

Note-1: If the direction of the line is reversed then direction angles will be replaced by $\pi - \alpha$, $\pi - \beta$ and $\pi - \gamma$ i.e. the signs of direction cosines are reversed.

Note-2: If the line is not passing through origin then a line passes through origin can be drawn which is parallel to the given line then the direction cosines of both the lines will be proportional.

Note- 3: Three numbers which are proportional to the direction cosines of a line are said to be direction ratios of the line. If l , m and n are dc's of a line then its dr's will be as $a = \lambda l$, $b = \lambda m$ and $c = \lambda n$ where $\lambda \in R - \{0\}$



1 The Direction Ratio And Direction Cosines

Disha Experts

A decorative red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the 'Disha Experts' text.

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