

Centum Preparation 100 Days plan class 12 Maths

Q.N o.	DAY - 43
258	<p>Example 6.39</p> <p>If the Cartesian equation of a plane is $3x - 4y + 3z = -8$, find the vector equation of the plane in the standard form.</p>
259	<p>Example 6.41</p> <p>Find the vector and Cartesian equations of the plane passing through the point with position vector $4\hat{i} + 2\hat{j} - 3\hat{k}$ and normal to vector $2\hat{i} - \hat{j} + \hat{k}$.</p>
260	<p>Example 6.42</p> <p>A variable plane moves in such a way that the sum of the reciprocals of its intercepts on the coordinate axes is a constant. Show that the plane passes through a fixed point</p>
261	<p>4. A plane passes through the point $(-1, 1, 2)$ and the normal to the plane of magnitude $3\sqrt{3}$ makes equal acute angles with the coordinate axes. Find the equation of the plane.</p>
262	<p>5. Find the intercepts cut off by the plane $\vec{r} \cdot (6\hat{i} + 4\hat{j} - 3\hat{k}) = 12$ on the coordinate axes.</p>
263	<p>6. If a plane meets the coordinate axes at A, B, C such that the centriod of the triangle ABC is the point (u, v, w), find the equation of the plane.</p>