Ques No.	Question
1 - 10405	CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY Find the equation of the plane passing through the intersection of the planes $\vec{r}\,\hat{i}+\dot{\hat{j}}+\hat{k}=6,\ \vec{r}.\left(2\hat{i}+3\hat{j}+4\hat{k}\right)=-5$ and the point (1,1,1). Click to watch Free Video Solution of this question on Doubtnut
2 - 10406	CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY Find the equation of the sphere which passing through the points (0, 0, 0), (0, 1, -1), (-1, 2, 0) and (1, 2, 3). Click to watch Free Video Solution of this question on Doubtnut
3 - 10407	CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY Find the value of λ , which makes the vectors $\vec{a}$, $\vec{b}$ and $\vec{c}$ coplanar, where $\vec{a}=\hat{i}+3\hat{j}+4\hat{k},\ \vec{b}=2\hat{i}+\lambda\hat{j}+2\hat{k}$ and $\vec{c}=4\hat{i}-7\hat{j}+10\hat{k}$ Click to watch Free Video Solution of this question on Doubtnut

4 - 10494	**CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY** Find the coordinates of the point where the line $\frac{x+1\backslash}{2} = \frac{y+2}{3} = \frac{z+3}{4}$ meets the plane $x+y+4z = 6.$ Click to watch Free Video Solution of this question on Doubtnut
5 - 10500	**CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY** Find the image of the point $(1, \backslash \ \ 2, \backslash \ \ 3)$ in the plane $x+2y+4z = 38$ Click to watch Free Video Solution of this question on Doubtnut
6 - 10521	**CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY** Find the equation of the sphere which passing through the points (3, 0, 0), (0, -1, 0), (0, 0, -2) and having the centre on the plane $3x+2y+4z = 1$. Click to watch Free Video Solution of this question on Doubtnut
7 - 10522	**CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY**

Find the equation of the plane which is perpendicular to the plane $5x + 3y + 6\,z + 8 = 0$ and which contains the line of intersection of the planes $x + 2y + 3z - 4 = 0\ and\ 2x + y - z + 5 = 0$

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8 - 10546

CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY

If the equation of a line A B is $\frac{x-3}{1} = \frac{y+2}{-2} = \frac{z-5}{4}$, find the direction ratios of a line parallel to A B

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9 - 10555

CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY

Find the equation of the line passing through the point $P(4, 6, 2)$ and the point of intersection of the line $\frac{x-1}{3} = \frac{y}{2} = \frac{z+1}{7}$ and the plane $x+y-z = 8$.

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10 - 10556

CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY

Find the distance of the point $(-2, 3, \ -4)$ from the line $\frac{x+2}{3} = \frac{2y+3}{4} = \frac{3z+4}{5}$ measured parallel to the plane $4x + 12y - 3z + 1 = 0$.

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11 - 10593

CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY

Find the equation of the plane passing through the point (3,4,1) and (0,1,0) and parallel to the line $\frac{x+3}{2} = \frac{y-3}{7} = \frac{z-2}{5}$

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12 - 10594

CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY

	Find the equation of the plane passing through the point $(-1, -1, 2)$ and perpendicular to each of the following planes: $2x + 3y - 3z = 2$ and $5x - 4y + z = 6$ Click to watch Free Video Solution of this question on Doubtnut
13 - 10595	CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY Find the shortest distance between the following lines: $\frac{x-3}{1} = \frac{y-5}{-2} = \frac{z-7}{1}$ and $\frac{x+1}{7} = \frac{y+1}{-6} = \frac{z+1}{1}$ Click to watch Free Video Solution of this question on Doubtnut
14 - 10596	CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY Find the point on the line $\frac{x+2}{3} = \frac{y+1}{2} = \frac{z-3}{2}$ at a distance $3\sqrt{2}$ from the point (1,2,3). Click to watch Free Video Solution of this question on Doubtnut
15 - 10604	CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY Write the distance of the following plane from the origin: $2x - y + 2z + 1 = 0$ Click to watch Free Video Solution of this question on Doubtnut
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16 - 10618	**CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY** Find the equation of the plane passing through the point (-1, 3, 2) and perpendicular to each of the planes $x + 2y + 3z = 5$ and $3x + 3y + z = 0$ Click to watch Free Video Solution of this question on Doubtnut
17 - 10630	**CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY** Find the coordinates of the point where the line through (3, –4, –5) and (2, –3, 1) crosses the plane determined by points A(1, 2, 3), B(2, 2, 1) and C (-1, 3, Click to watch Free Video Solution of this question on Doubtnut
18 - 10633	**CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY** Find the shortest distance between the following pair of lines and hence write whether the lines are intersecting or not :

	$\frac{x-1}{2}=\frac{y+1}{3}=z; \frac{x+1}{5}=\frac{y-2}{1}; z=2$ Click to watch Free Video Solution of this question on Doubtnut
19 - 10643	CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY Find the equation of the plane determined by the points A(3, –1, 2), B(5, 2, 4) and C(–1, –1, 6) and hence find the distance between the plane and the point P(6, 5, 9). Click to watch Free Video Solution of this question on Doubtnut
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20 - 10654	CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY Find the Cartesian equation of the line which passes through the point (2, 4, 5) and is parallel to the line $\frac{x+3}{3}=\frac{4-y}{5}=\frac{z+8}{6}$. Click to watch Free Video Solution of this question on Doubtnut
21 - 10657	CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY

	Find the length of the perpendicular drawn from the origin to the plane 2x $3y + 6z + 21 = 0$. Click to watch Free Video Solution of this question on Doubtnut
22 - 10658	CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY Find the vector equation of the plane passing through three points with position vectors $\hat{i} + \hat{j} - 2\hat{k}, \hat{i} - \hat{j} + \hat{k}$ and $\hat{i} + 2\hat{j} + \hat{k}$. Also find the coordinates of the point of intersection of this plane and the line $\overrightarrow{r} = 3\hat{i} - \hat{j} - \hat{k} + \lambda\left(2\hat{i} - 2\hat{j} + \hat{k}\right)$. Click to watch Free Video Solution of this question on Doubtnut
23 - 10692	CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY Solve the value of λ so that the line $\frac{1-x}{3} = \frac{7y-14}{2\lambda} = \frac{5z-10}{11}$ and $\frac{7-7x}{3\lambda} = \frac{y-5}{1} = \frac{6-z}{5}$ are perpendicular to each other. Click to watch Free Video Solution of this question on Doubtnut
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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY

24 - 10719

Find the Vector and Cartesian equations of the line passing through the point (1, 2, 4) and perpendicular to the two lines $\frac{x-8}{3}=\frac{y+19}{-16}=\frac{z-10}{7}$ and $\frac{x-15}{3}=\frac{y-29}{8}=\frac{z-5}{-5}$

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY

25 - 10729

Write the direction cosines of a line equally inclined to be three coordinate axes.

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26 - 10741

CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY

Find the distance of the plane $3x\ \ 4y+12z=3$ from the origin.

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27 - 10755	CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY Find the vector equation of the plane passing through the points $(2,\ 1,\ 1)\ and\ (1,\ 3,\ 4)$ and perpendicular to the plane $x\ -\ 2y + 4z = 10$. Also show that the plane thus obtained contains the line $\overrightarrow{r} = -\hat{i} + 3\hat{j} + 4\hat{k} + \lambda\left(3\hat{i} - 2\hat{j} - 5\hat{k}\right).$ Click to watch Free Video Solution of this question on Doubtnut

28 - 10773	CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY Find the equation of the plane through the points (2, 1, 1) and (1, 3, 4) and perpendicular to the plane $x\ \ 2y + 4z = 10.$ Click to watch Free Video Solution of this question on Doubtnut
29 - 10774	CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY

	Find the shortest distance between the following lines: $\frac{x+1}{7}=\frac{y+1}{-6}=\frac{z+1}{1}; \frac{3-x}{-1}=\frac{y-5}{-2}=\frac{z-7}{1}$ Click to watch Free Video Solution of this question on Doubtnut
30 - 10786	CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY Find the shortest distance between the following lines whose vector equations are: $\vec{r}=(1-t)\hat{i}+(t-2)\hat{j}+(3-2t)\hat{k}$ and $\vec{r}=(s+1)\hat{i}+(2s-1)\hat{j}-(2s+1)\hat{k}$. Click to watch Free Video Solution of this question on Doubtnut
31 - 10791	CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY Find the distance of the point $(-1,-5,-10)$, from the point of intersection of the line $\vec{r}=\left(2\hat{i}-\hat{j}+2k\right)+\lambda\left(3\hat{i}+4\hat{j}+2\hat{k}\right)$ and the plane $\vec{r}\,\hat{i}-\dot{\hat{j}}+\hat{k}=5$ Click to watch Free Video Solution of this question on Doubtnut
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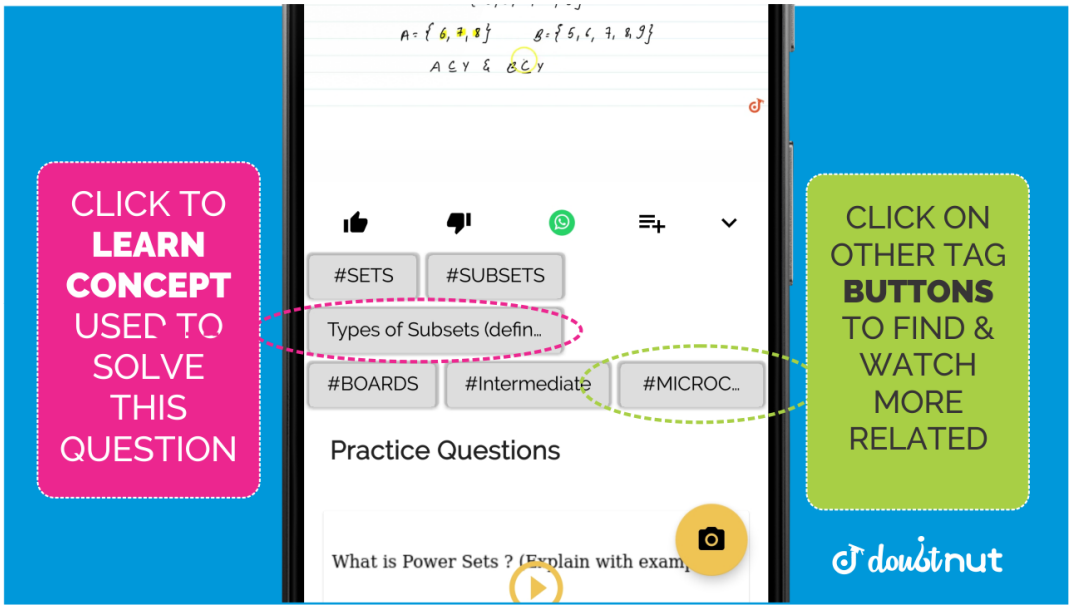

32 - 10807	**CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY** Write the cartesian equation of a plane, bisecting the line segment joining the points A (2, 3, 5) and B (4, 5, 7) at right angles. Click to watch Free Video Solution of this question on Doubtnut
33 - 10819	**CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY** Write the direction cosines of the vector $-2\hat{i}+\hat{j}-5\hat{k}$ Click to watch Free Video Solution of this question on Doubtnut
34 - 10830	**CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY** If the lines $\frac{x-1}{-3}=\frac{y-2}{-2y}=\frac{z-3}{2}$ and $\frac{x-1}{k}=\frac{y-2}{1}-\frac{z-3}{5}$ are perpendicular, find the value of k and hence find the equation of plane containing these lines.

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35 - 10867

CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY

Find the direction cosines of the line passing through the following points: $(-2, 4, -5), (1, 2, 3)$.

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36 - 10879

CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY

If a line has direction ratios 2, –1, –2, then what are its direction cosines?

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37 - 10900

CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY

Find the distance of the point P(6,5,9) from the plane determined by the points $A(3, -1, 2)$, $B(5, 2, 4)$ and $C(-1, -1, 6)$.

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38 - 10902

CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY

Find the points on the line $\frac{x+2}{3} = \frac{y+1}{2} = \frac{z-3}{2}$ at a distance of 5 units from the point $P(1, 3, 3,)$.

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39 - 10908

CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY

Find the coordinates of the foot of the perpendicular and the perpendicular distance of the point P(3,2,1) from the plane $2x - y + z + 1 = 0$. Find also, the image of the point in the plane.

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40 - 10917

CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY

Write the direction cosines of a line parallel to z-axis.

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41 - 10932	CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY Find the vector equation of the plane which contains the line of intersection of the plane $\vec{r}\hat{i} + 2\dot{\hat{j}} + 3\hat{k} - 4 = 0$ and $\vec{r}2\hat{i} + \dot{\hat{j}} - \hat{k} + 5 = 0$ and which is perpendicular to the plane $\vec{r}5\hat{i} + 3\dot{\hat{j}} - 6\hat{k} + 8 = 0.$ Click to watch Free Video Solution of this question on Doubtnut
42 - 10933	CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY Find the coordinates of the point, where the line $\frac{x-2}{3} = \frac{y+1}{4} = \frac{z-2}{2}$ intersects the plane $x - y + z - 5 = 0$. Also find the angle between the line and the plane. Click to watch Free Video Solution of this question on Doubtnut
43 - 10945	CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY Find the angle between the line $\frac{x+1}{2} = \frac{3y+5}{9} = \frac{3-z}{-6}$ and the plane $10x + 2y - 11z = 3$ Click to watch Free Video Solution of this question on Doubtnut
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44 - 10951	**CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY** Write the intercept cut off by the plane $2x + y - z = 5$ on $x - a\xi s$. Click to watch Free Video Solution of this question on Doubtnut
45 - 10968	**CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY** Find the shortest distance between the following two lines: $\vec{r} = (1+\lambda)\hat{i} + (2-\lambda)\hat{j} + (\lambda+1)\hat{k}$; $\vec{r} = \left(2\hat{i} - \hat{j} - \hat{k}\right) + \mu\left(2\hat{i} + \hat{j} + 2\hat{k}\right)$ Click to watch Free Video Solution of this question on Doubtnut
46 - 10970	**CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY** Find the equation of the plane determined by the points $(A(3, -1, 2), B(5, 2, 4)$ and $C(-1, -1, 6)$. Also find the distance of the point $P(6, 5, 9)$ from the plane. Click to watch Free Video Solution of this question on Doubtnut
47 - 10991	**CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY**

Find the image of the point having position vector $\hat{i} + 2\hat{j} + 4\hat{k}$ in the plane $\vec{r}\,2\hat{i} - \hat{j} + \hat{k} + 3 = 0.$

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48 - 10992

CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY

Find the equation of a plane which is at a distance of $3\sqrt{3}$ units from origin and the normal to which is equally inclined to the coordinate axes.

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49 - 11008

CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY

Find the vector and cartesian equations of the line passing through the point $P\ (1,\ 2,\ 3)$ and parallel to the planes $\vec{r}\,\hat{i} - \hat{j} + 2\hat{k} = 5$ and $\vec{r}\,3\hat{i} + \hat{j} + \hat{k} = 6.$

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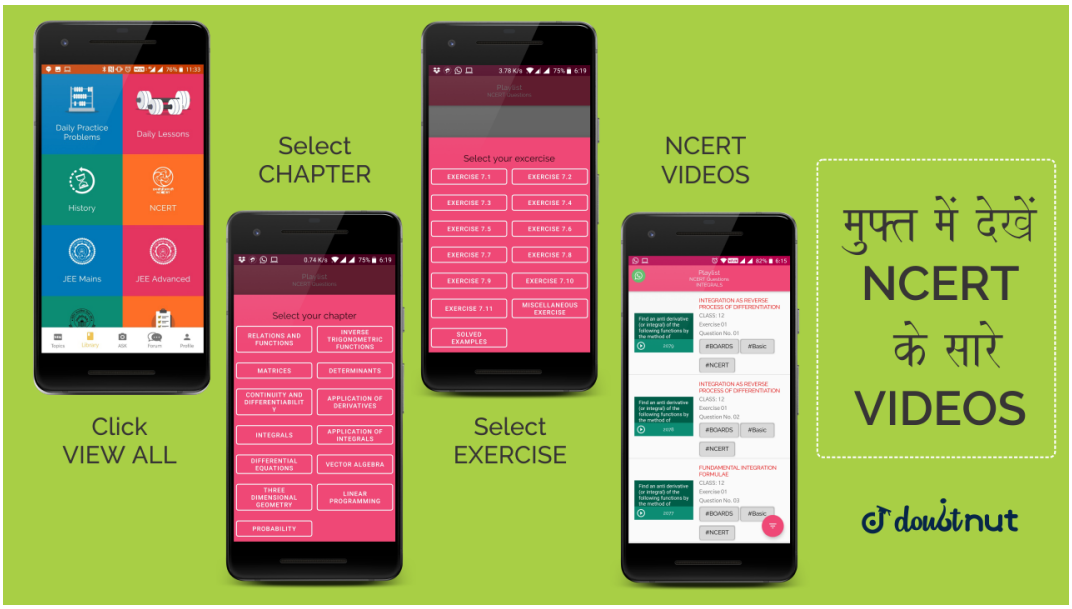
50 - 11019	CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY Write the direction-cosines of the line joining the points (1, 0, 0) and (0, 1, 1). Click to watch Free Video Solution of this question on Doubtnut
51 - 11027	CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY Find the equation of the plane which contains the line of intersection of the planes $\vec{r}$. $\left(\hat{i}+2\hat{j}+3\hat{k}\right)-4=0$, $\vec{r}\,2\hat{i}+\dot{\hat{j}}-\hat{k}+5=0$ and which is perpendicular to the plane $\vec{r}\,5\hat{i}+3\dot{\hat{j}}-6\hat{k}+8=0$. Click to watch Free Video Solution of this question on Doubtnut
	
52 - 11029	CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY

	Find the angle between the following pair of lines: $\frac{-x+2}{-2}=\frac{y-1}{7}=\frac{z+3}{-3}$ and $\frac{x+2}{-1}=\frac{2y-8}{4}=\frac{z-5}{4}$ and check whether the lines are parallel or perpendicular. Click to watch Free Video Solution of this question on Doubtnut
53 - 11071	CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY Show that the lines $\frac{x+3}{-3}==\frac{z-5}{5}; \frac{x+1}{-1}=\frac{y-2}{2}=\frac{z-5}{5}$ are coplanar. Also find the equation of the plane containing the lines. Click to watch Free Video Solution of this question on Doubtnut
54 - 11081	CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY Find a unit vector in the direction of $\vec{a}=2\hat{i}-3\hat{j}+6\hat{k}$ Click to watch Free Video Solution of this question on Doubtnut
55 - 11084	CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY Find the Cartesian equation of the plane passing through the points $A(0,0,0)$ and $b(3,-1,2)$ and parallel to the

	line $\frac{x-4}{1}=\frac{y+3}{-4}=\frac{z+1}{7}$ Click to watch Free Video Solution of this question on Doubtnut
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56 - 11085	**CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY** What is the cosine of the angle which the vector $\sqrt{2}\hat{i}+\hat{j}+\hat{k}$ makes with $y-a\xi s$? Click to watch Free Video Solution of this question on Doubtnut
57 - 13226	**CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY** Find the distance of the point $(-1,-5,-10)$ from the point of intersection of the line $\overrightarrow{r}=2\hat{i}-\hat{j}+2\hat{k}+\lambda\left(3\hat{i}+4\hat{j}+2\hat{k}\right)$ and the plane $\overrightarrow{r}\hat{i}-\dot{\hat{j}}+\hat{k}=5.$ Click to watch Free Video Solution of this question on Doubtnut
58 - 13237	**CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY**

Find the unit vector perpendicular to the plane ABC where the position vectors of A, B and C are $2\hat{i} - \hat{j} + \hat{k}$, $\hat{i} + \hat{j} + 2\hat{k}$ and $2\hat{i} + 3\hat{k}$ respectively.

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59 - 13242

CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY

Write the equation of the straight line through the point $(\alpha, \beta, \gamma$ and parallel to z-axis.

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60 - 13251

CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 11. THREE DIMENSIONAL GEOMETRY

Write the vector equation of the plane, passing through the point (a,b,c) and parallel to the plane $\vec{r}\,\hat{i} + \dot{\hat{j}} + \hat{k} = 2.$

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