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BOARDS CONCEPTS BOOSTER

VISUALISING SOLID SHAPES

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Ques No.	Question
1	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **1. CURVES** 1. Curve --a plane figure formed by joining a number of points without lifting a pencil from the paper and without retracing any portion of the drawing other than single points is called a curve. Click to LEARN this concept/topic on Doubtnut
2	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **1. INTRODUCTION** 1. Introduction Click to LEARN this concept/topic on Doubtnut
3	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **1. CURVES** 2. Open curve is a curve which does not cut itself is called an open curve . Click to LEARN this concept/topic on Doubtnut

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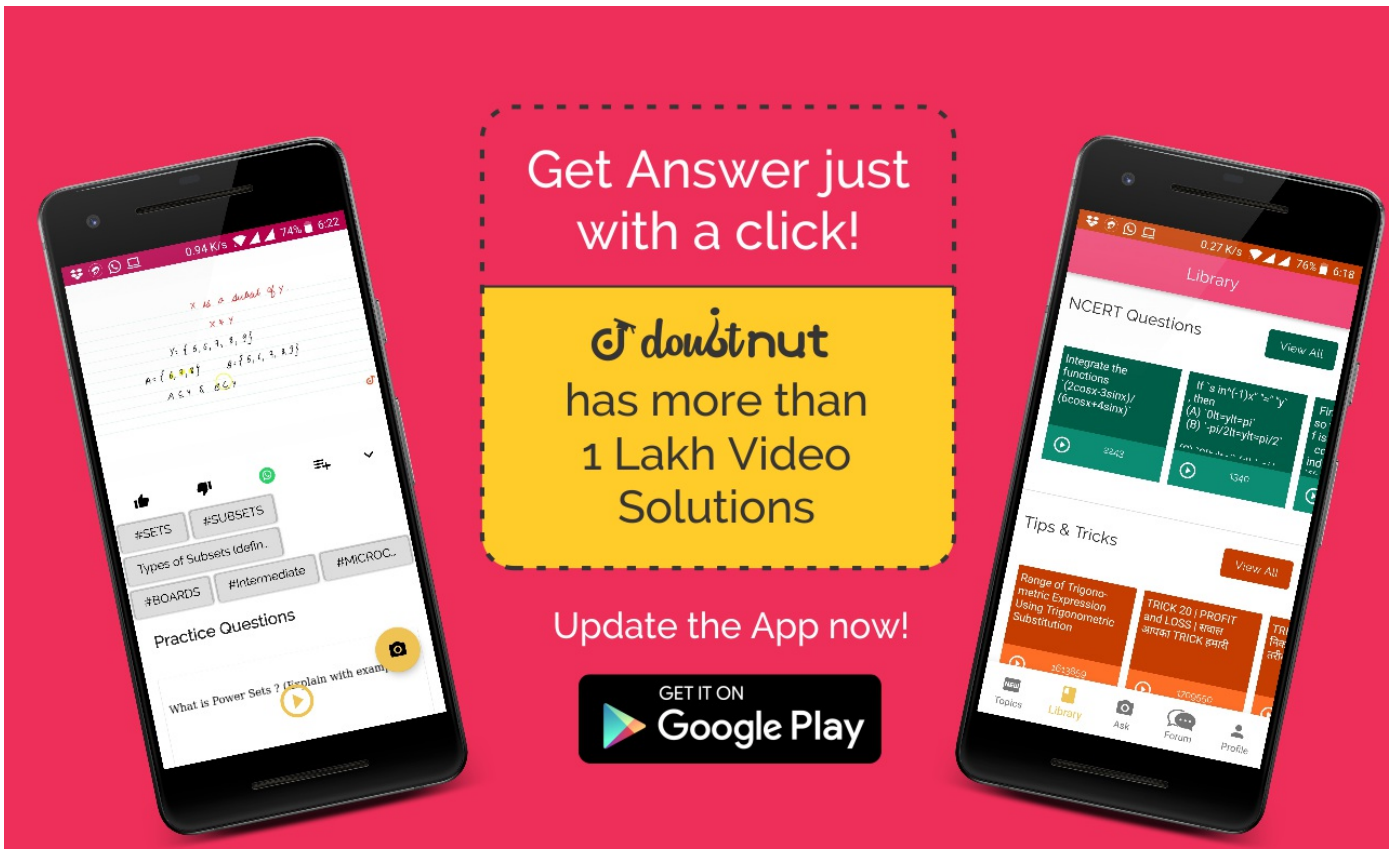

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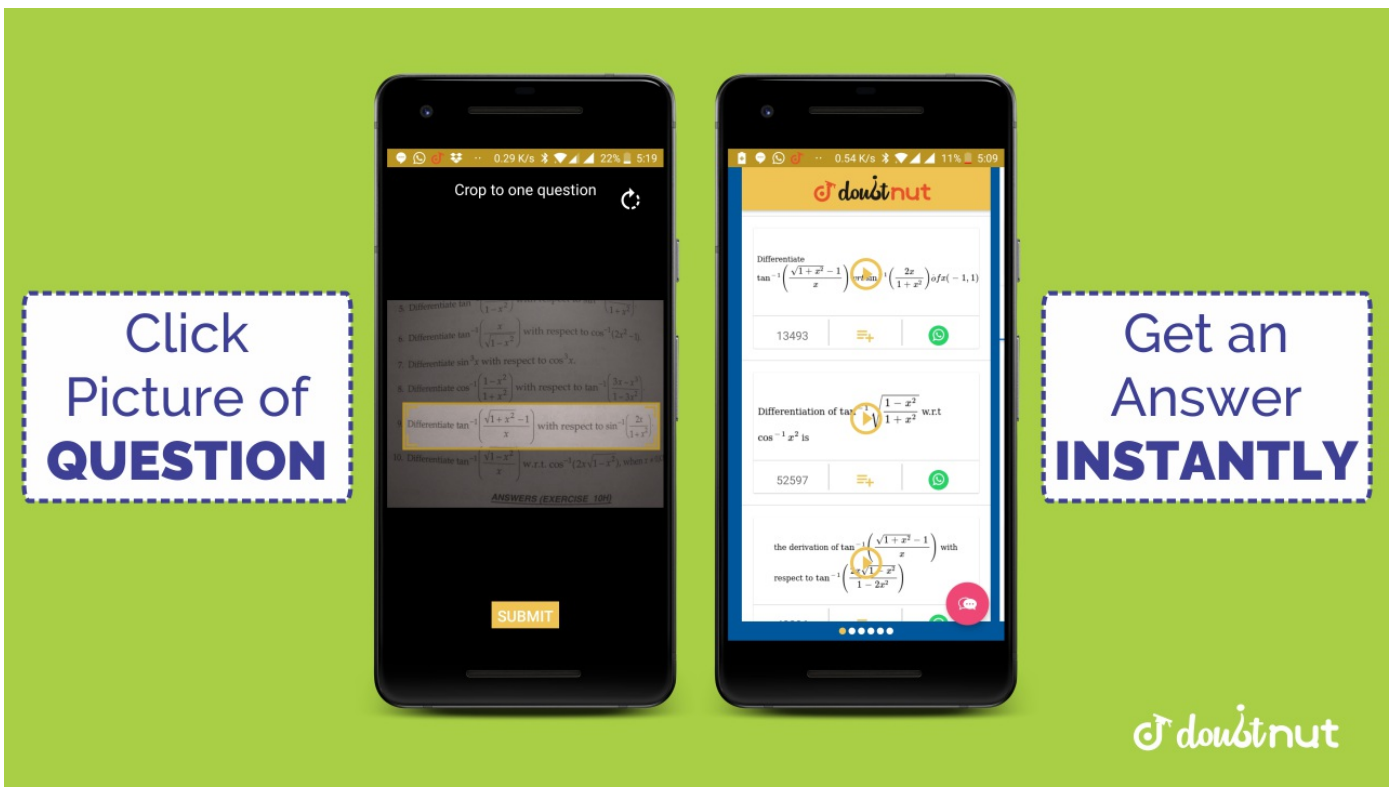
4	**1. CURVES** 3. Closed curves a curve which cuts itself is called a closed curve. Click to LEARN this concept/topic on Doubtnut
5	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **1. CURVES** 4. Simple closed curve a closed curve is called a simple closed curve if it does not pass through one point more than once. Click to LEARN this concept/topic on Doubtnut
6	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **1. CURVES** 5. Position of a point with respect to a curve. Click to LEARN this concept/topic on Doubtnut
7	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **2. POLYGONS** 1. Polygons a polygon is a closed curve (figure)formed by the line segments such that : (i)no two line segments intersect except at their end -points.(ii)no two line segments with a common end points are coincident. Click to LEARN this concept/topic on Doubtnut
doubtnut पढ़ना हुआ आसान	
8	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **2. POLYHEDRA** 1. polyhedron-- a solid shape bounded by polygons is called a polyhedron. Click to LEARN this concept/topic on Doubtnut

9	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **2. POLYGONS** 2. Polygons are classified according to the number of sides. Click to LEARN this concept/topic on Doubtnut
10	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **2. POLYHEDRA** 2. Faces polygons forming a polyhedron are known as its faces. Click to LEARN this concept/topic on Doubtnut
11	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **2. POLYGONS** 3. Adjacent sides any two sides with a common endpoint(vertex)are called the adjacent sides of the polygon. Click to LEARN this concept/topic on Doubtnut
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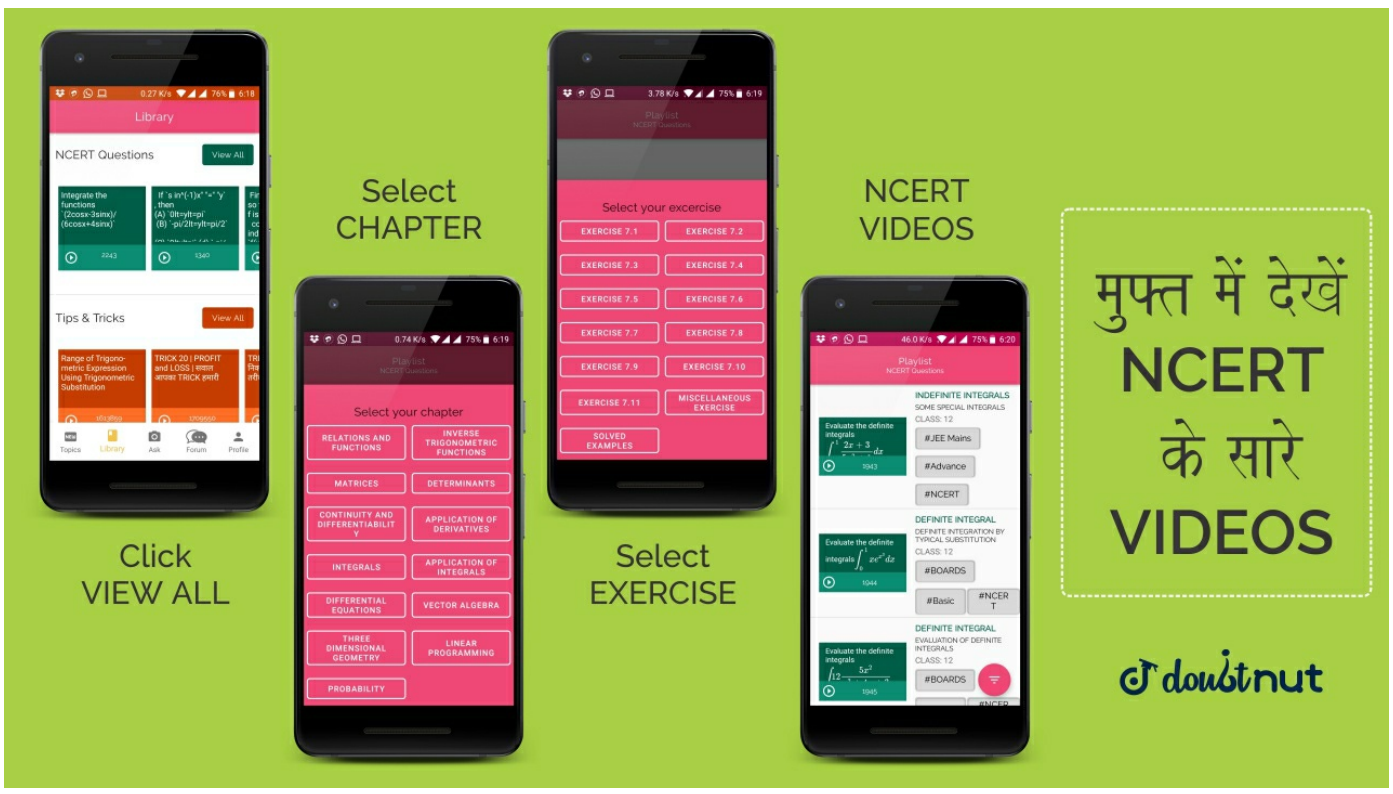
12	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **2. POLYHEDRA** 3. Edges line segments common to intersecting faces of a polyhedron are known as its edges. Click to LEARN this concept/topic on Doubtnut
	CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES **2. POLYGONS**

13	4. Adjacent vertices the end-points of the same side of a polygon are known as the adjacent vertices. Click to LEARN this concept/topic on Doubtnut
14	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **2. POLYHEDRA** 4. Vertices points of intersection of edges of a polyhedron are known as its vertices. Click to LEARN this concept/topic on Doubtnut
15	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **2. POLYGONS** 5. DIAGONALS The line segments obtained by joining vertices which are are not adjacents are called the diagonals of the polygon. Click to LEARN this concept/topic on Doubtnut
	
16	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **2. POLYHEDRA** 5. Following are some polyhedrons :

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17	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **2. POLYGONS** 6. Convex polygon a polygon is a convex polygon if the line segment joining any two points inside it lies completely inside the polygon. Click to LEARN this concept/topic on Doubtnut
18	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **2. POLYHEDRA** 6. Regular polyhedron . Click to LEARN this concept/topic on Doubtnut
19	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **2. POLYGONS** 7. N-sides of a convex polygons and $n > 3$ then it has $\frac{n(n-3)}{2}$ diagonals. Click to LEARN this concept/topic on Doubtnut
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20	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **2. POLYHEDRA** 7. Convex polyhedron. Click to LEARN this concept/topic on Doubtnut

21	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **2. POLYGONS** 8. Regular polygon a polygon is called a regular polygon if all its sides are equal and all its angles are equal. Click to LEARN this concept/topic on Doubtnut
22	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **3. QUADRILATERALS** 1. Introduction Click to LEARN this concept/topic on Doubtnut
23	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **3. PRISMS** 1. Prisms a prism is a solid whose side faces are parallelograms and whose ends(or bases) are congruent parallel rectilinear figures. Click to LEARN this concept/topic on Doubtnut
24	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **3. QUADRILATERALS** 2. Definition let ABC and D be four points is in a plane such that : (i)no three of them are collinear (ii) the line segments ABBCCD and DA do not intersect except at their and points. Click to LEARN this concept/topic on Doubtnut
	CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES **3. PRISMS**

25	2. Base of a prism the end on which a prism may be supposed to stand is called the base of the prism. Click to LEARN this concept/topic on Doubtnut
26	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **3. PRISMS** 3. Height of a prism the perpendicular distance the ends of a prism is called the height of the prism. Click to LEARN this concept/topic on Doubtnut
27	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **3. PRISMS** 4. Axis of a prism the straight line joining the centres of the ends of a prism is called the axis of the prism. Click to LEARN this concept/topic on Doubtnut
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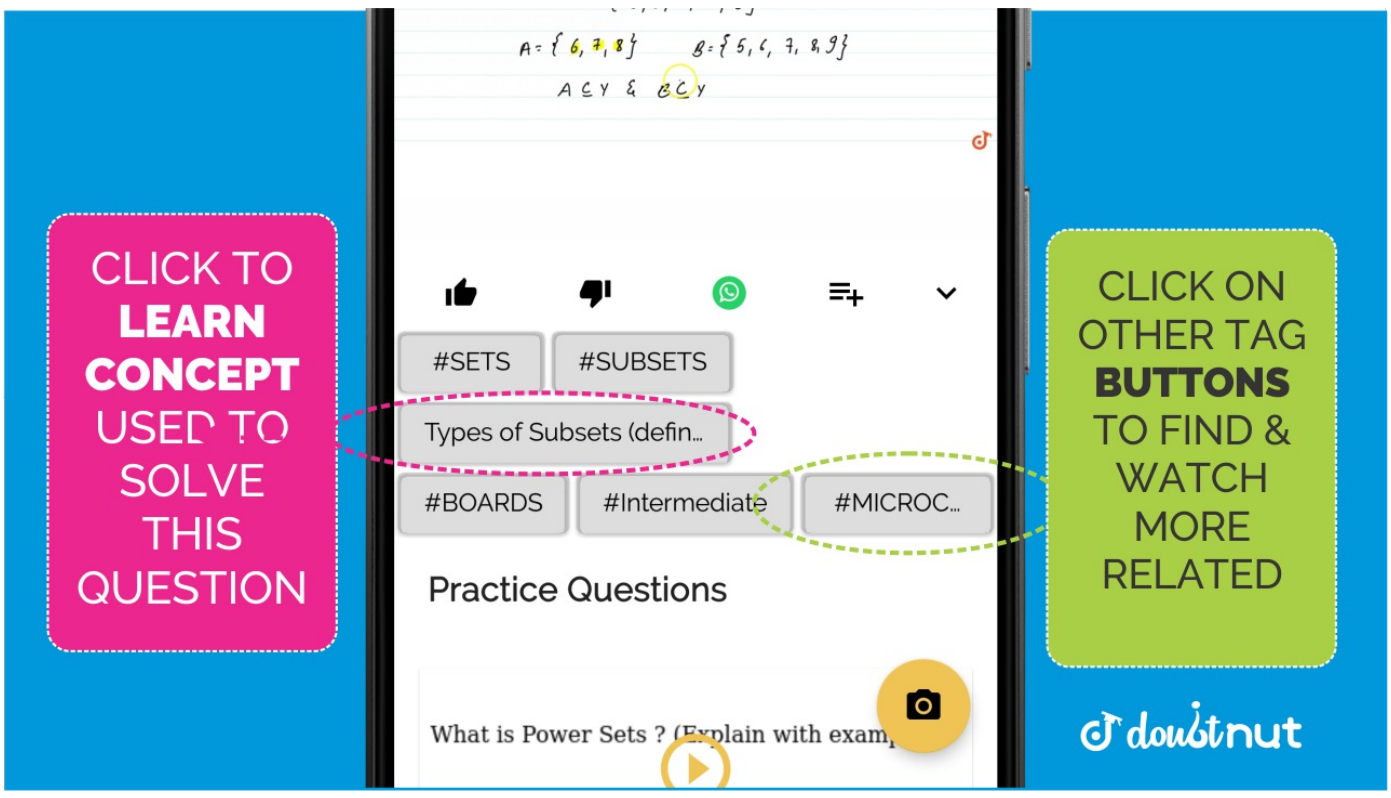
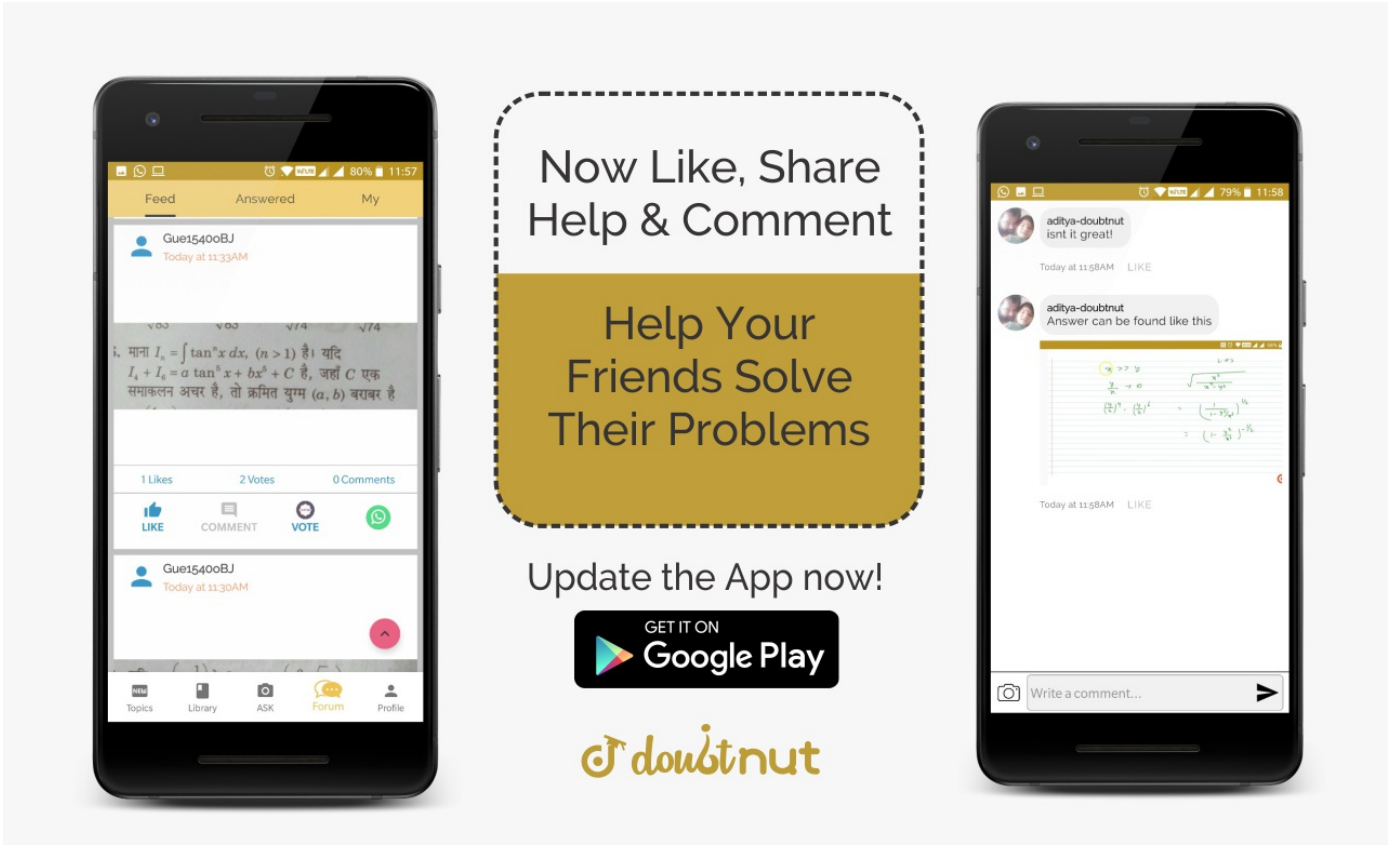
28	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **3. PRISMS** 5. Length of a prism the length of a prism is the portion of the axis that lies between the parallel ends. Click to LEARN this concept/topic on Doubtnut
29	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **3. PRISMS** 6. Lateral faces all faces other than the bases of a prism are known as its lateral faces. Click to LEARN this concept/topic on Doubtnut

30	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **3. PRISMS** 7. Lateral edges the line of intersection of the lateral faces of a prism are called the lateral edges of the prism. Click to LEARN this concept/topic on Doubtnut
31	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **3. PRISMS** 8. Regular prism a prism is called a regular prism if ends are regular polygons. Click to LEARN this concept/topic on Doubtnut
	
32	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **3. PRISMS** 9. Right prism a prism is called a right prism if its lateral edges are perpendicular to its ends (bases). Otherwise it is said to be an oblique prism. Click to LEARN this concept/topic on Doubtnut
33	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **3. PRISMS** 10. Triangular prism a prism is called triangular prism if its ends are triangles. Click to LEARN this concept/topic on Doubtnut
	CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES **3. PRISMS**

34	11. Right triangular prism a right prism is called a right triangular prism if its ends are triangles. Click to LEARN this concept/topic on Doubtnut
35	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **4. PARTS OF A QUADRILATERAL** 1. Sides in a quadrilateral ABCD the four line segments ABBC.CD and DA are called its sides. Click to LEARN this concept/topic on Doubtnut
36	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **4. PYRAMID** 1. Pyramid a pyramid is a solid whose base is a plane rectilinear figure and whose side-faces are triangles having a common vertex outside the plane of the base. Click to LEARN this concept/topic on Doubtnut
37	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **4. PARTS OF A QUADRILATERAL** 2. Adjacent sides two sides of a quadrilateral are called its adjacent sides if they have a common endpoint. Click to LEARN this concept/topic on Doubtnut
38	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **4. PYRAMID** 2. Vertex the common vertex of the triangular faces of a pyramid is called the vertex of the pyramid.



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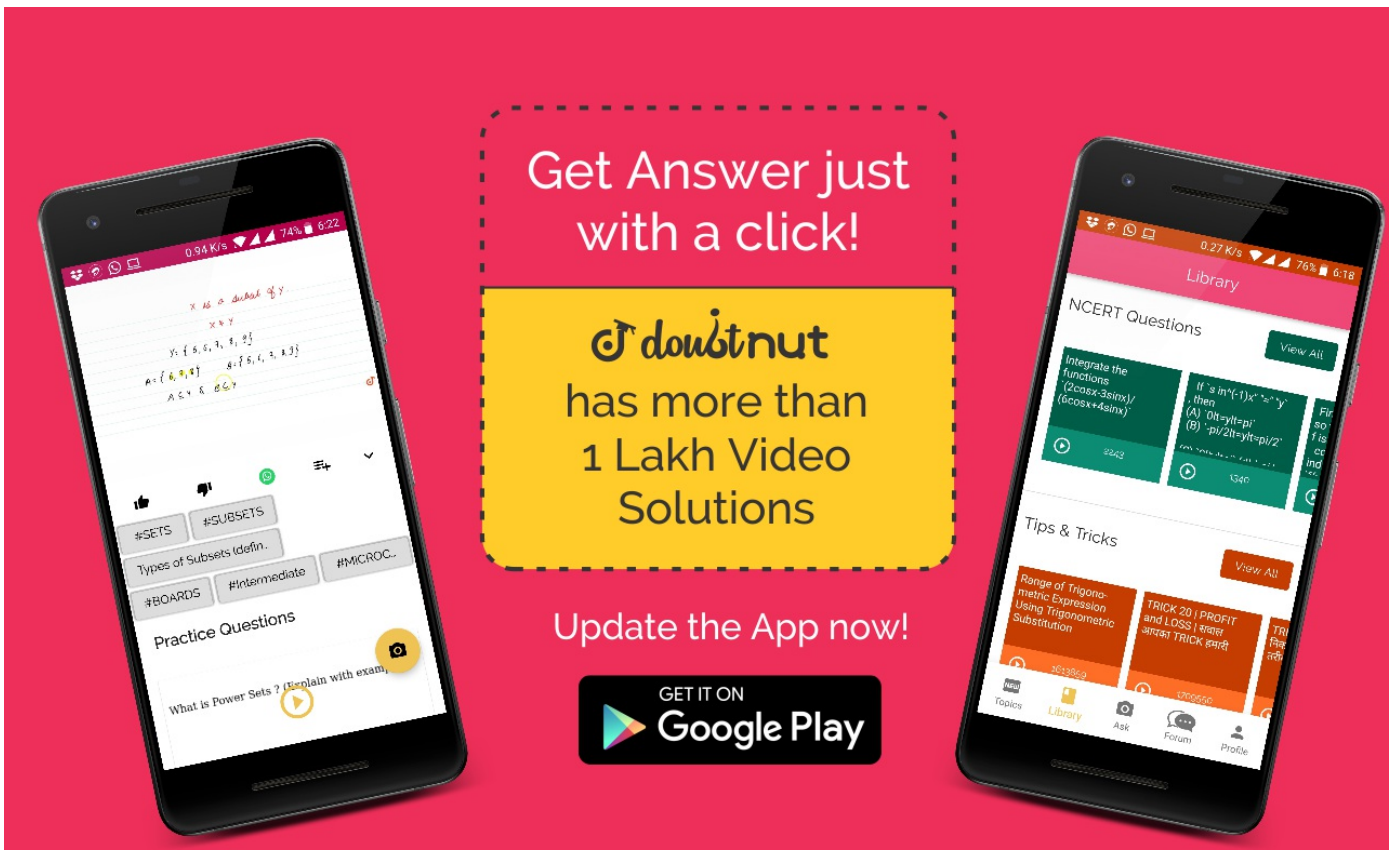
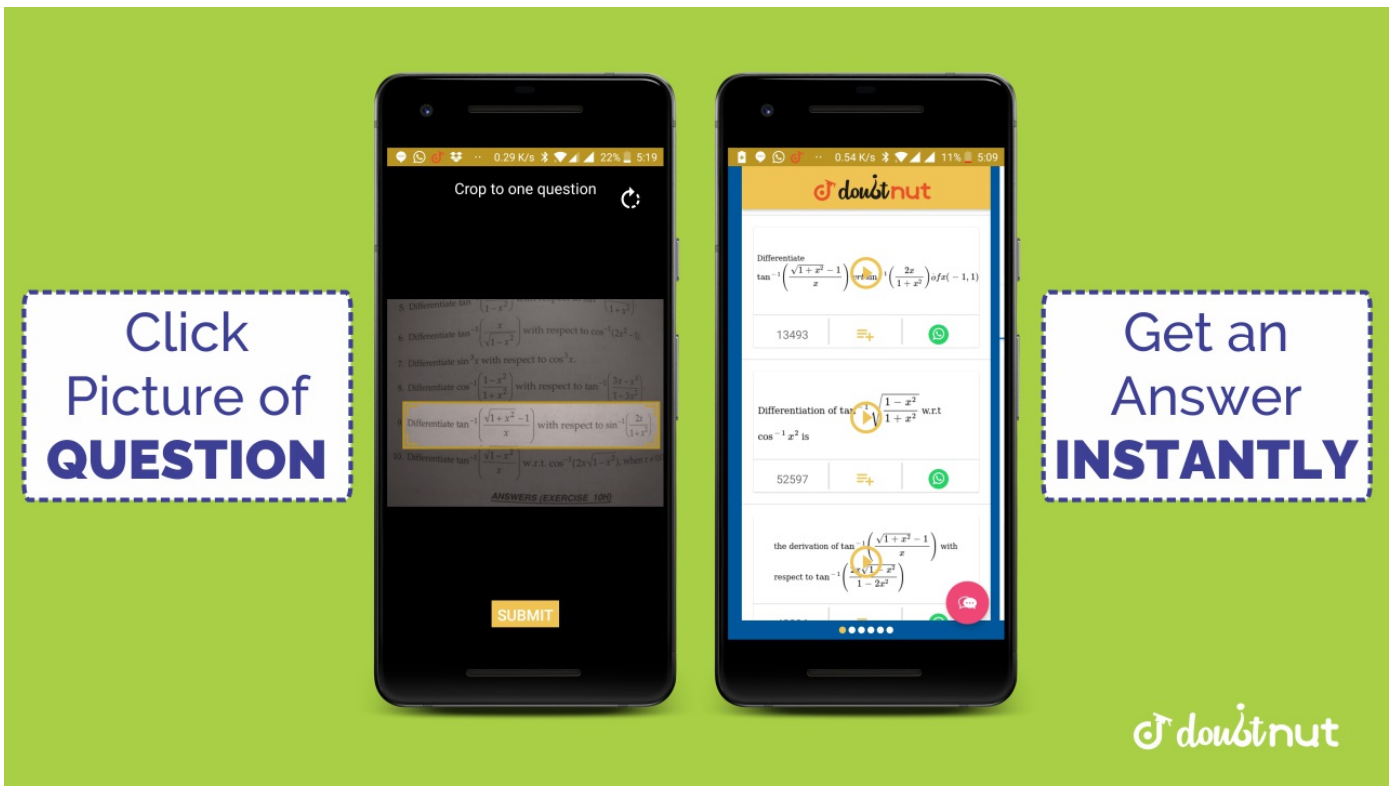
39	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **4. PARTS OF A QUADRILATERAL** 3. Opposite sides two sides of a quadrilateral are called its opposite sides if they do not have a common endpoint. Click to LEARN this concept/topic on Doubtnut
	
40	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **4. PYRAMID** 3. Height the height of a pyramid is the length of the perpendicular from the vertex to the base. Click to LEARN this concept/topic on Doubtnut
41	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **4. PARTS OF A QUADRILATERAL** 4. Diagonals in the quadrilateral ABCD the line segments AC and BD are called its diagonals. Click to LEARN this concept/topic on Doubtnut
42	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **4. PYRAMID** 4. Axis the axis of a pyramid is the straight line joining the vertex to the central point of the base. Click to LEARN this concept/topic on Doubtnut

43	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **4. PARTS OF A QUADRILATERAL** 5. Adjacent angles two angles of a quadrilateral are called adjacent angles if they have a common side as an arm. Click to LEARN this concept/topic on Doubtnut
	
44	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **4. PYRAMID** 5. Lateral edges the edges through the vertex of a pyramid are known as its lateral edges. Click to LEARN this concept/topic on Doubtnut
45	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **4. PARTS OF A QUADRILATERAL** 6. Opposite angles two angles of a quadrilateral which are not adjacent angles are known as opposite angles of the quadrilateral . Click to LEARN this concept/topic on Doubtnut
46	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **4. PYRAMID** 6. Lateral edges the edges through the vertex of a pyramid are known as its lateral edges. Click to LEARN this concept/topic on Doubtnut
	CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES **4. PYRAMID**

47	7. Right pyramid a pyramid is said to right pyramid if the perpendicular dropped from the vertex on the base meets the base at its central point. Click to LEARN this concept/topic on Doubtnut
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48	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **4. PYRAMID** 8. Regular pyramid a pyramid is said to be a regular pyramid if its base is a regular figure. Click to LEARN this concept/topic on Doubtnut
49	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **4. PYRAMID** 9. Slant height the slant height of a regular right-pyramid is the line segment joining the vertex to the midpoint of anyone of the sides of the base. Click to LEARN this concept/topic on Doubtnut
50	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **4. PYRAMID** 10. Triangular pyramid a pyramid is called a triangular pyramid if its base is a triangle . Click to LEARN this concept/topic on Doubtnut
51	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **4. PYRAMID** 11. Quadrilateral pyramid a pyramid is called a quadrilateral pyramid if its base is a quadrilateral.

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	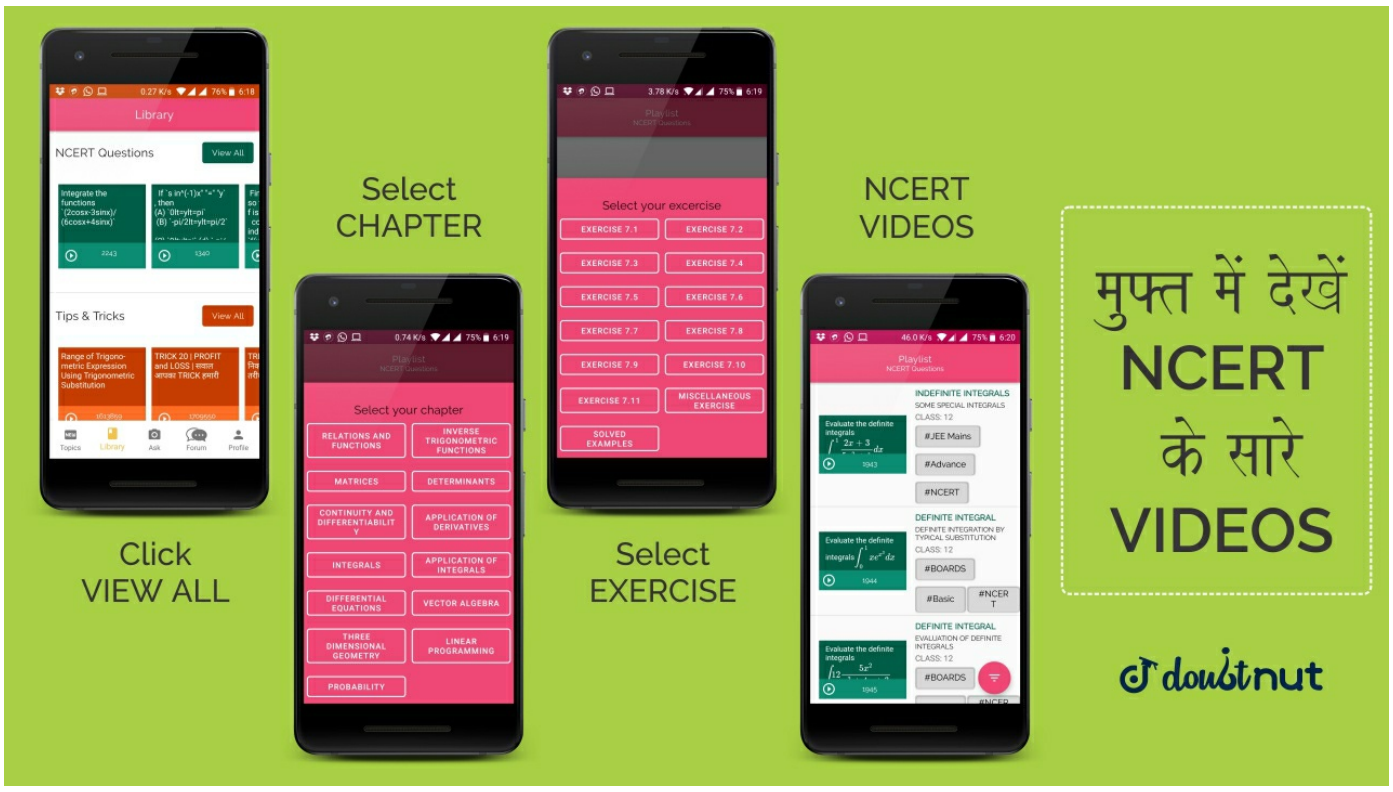
52	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **5. REGIONS IN A QUADRILATERAL** 1. Interior and exterior of a quadrilateral Click to LEARN this concept/topic on Doubtnut
53	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **6. CONVEX QUADRILATERAL** 1. Definition a polygon is called a convex polygon if the line containing any side of the polygon has the remaining vertices on the same side of it. Click to LEARN this concept/topic on Doubtnut
54	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **6. CONVEX QUADRILATERAL** 2. In a convex quadrilateral the line segment joining any two points in its interior lies completely in its interior. Click to LEARN this concept/topic on Doubtnut
55	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **7. INTERIOR ANGLE SUM PROPERTY** 1. Theorem 1 the sum of the angles of a quadrilateral is 360° or 4 right angles. Click to LEARN this concept/topic on Doubtnut

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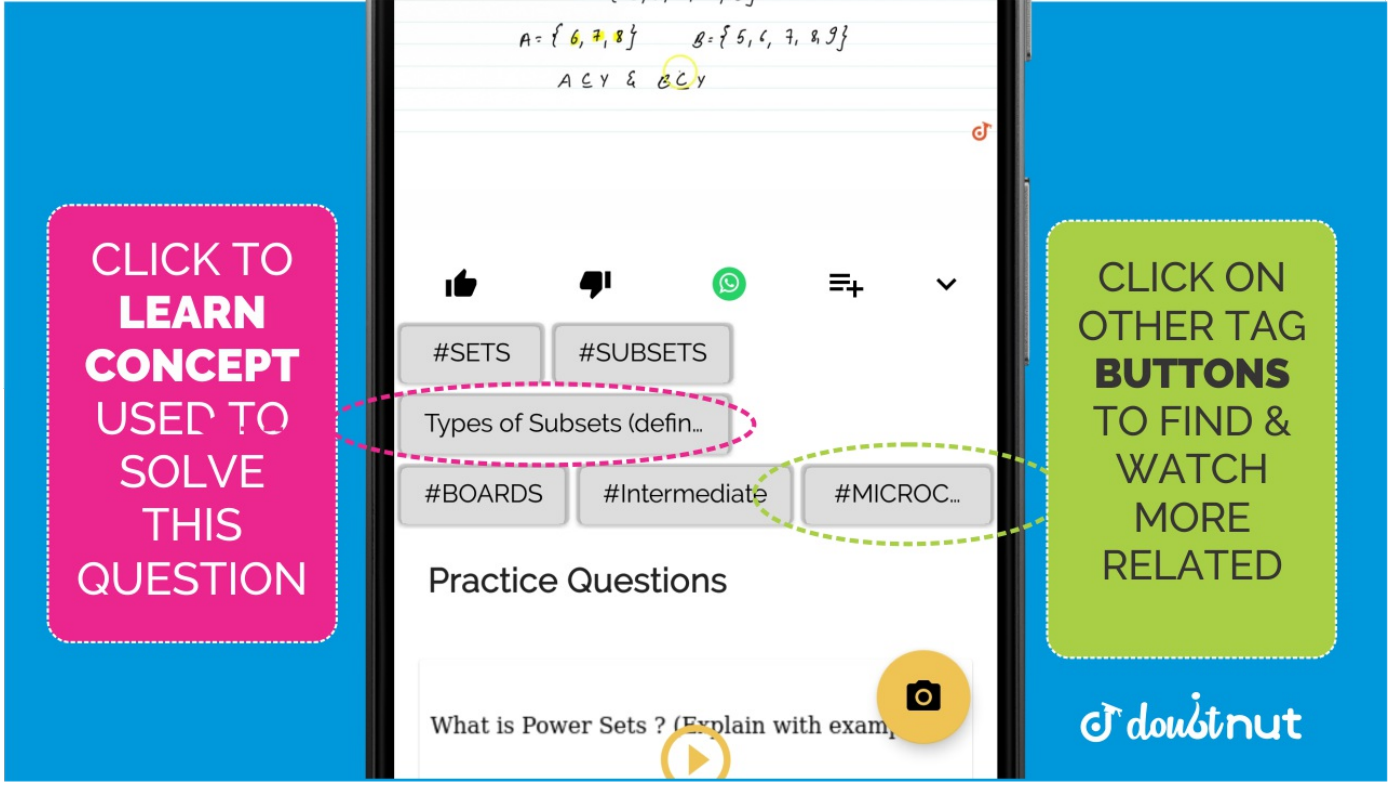
56	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **7. INTERIOR ANGLE SUM PROPERTY** 2. Theorem 2 prove that the sum of the interior angles of pentagon is 540°. Click to LEARN this concept/topic on Doubtnut
57	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **7. INTERIOR ANGLE SUM PROPERTY** 3. Theorem 3 thu sum of all angles of a hexagon is 720°. Click to LEARN this concept/topic on Doubtnut
58	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **7. INTERIOR ANGLE SUM PROPERTY** 4. Definition If $x \text{ and } a$ are two rational numbers such that $x^3 = a$ then we say that x is the cube root of a and we write $\sqrt[3]{a} = x$. Click to LEARN this concept/topic on Doubtnut
59	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **7. INTERIOR ANGLE SUM PROPERTY** 5. Remark 2 if there is a regular polygon of n sides $(n \geq 3)$ then its each interior angle is equal to $\left(\frac{2n-4}{n}\right)$ right angles i.e.`((2 n-4)/(n)x 90). Click to LEARN this concept/topic on Doubtnut

60	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **8. EXTERIOR ANGLE PROPERTY** 1. theorem 1 (Exterior angle sum property) if the sides of quadrilateral are produced in order the sum of four exterior angles so formed is 360°. Click to LEARN this concept/topic on Doubtnut
61	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **8. EXTERIOR ANGLE PROPERTY** 3. How many sides has a regular polygon,each angle of which is of measure- 156° and 108° Click to LEARN this concept/topic on Doubtnut
62	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **9. VARIOUS TYPES OF QUADRILATERALS.** 1. Introduction Click to LEARN this concept/topic on Doubtnut
63	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **10. TRAPEZIUM** 1. Trapezium a quadrilateral having exactly one pair of parallel sides is called a trapezium. Click to LEARN this concept/topic on Doubtnut

64	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **10. TRAPEZIUM** 2. Isosceles trapezium a trapezium is said to be an isosceles trapezium if its non-parallel sides are equal. Click to LEARN this concept/topic on Doubtnut
65	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **11. PARALLELOGRAM** 1. Parallelogram a quadrilateral is a parallelogram if its both pairs of opposite sides are parallel. Click to LEARN this concept/topic on Doubtnut
66	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **11. PARALLELOGRAM** 2. Rhombus a parallelogram having all sides equal is called a rhombus. Click to LEARN this concept/topic on Doubtnut
67	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **11. PARALLELOGRAM** 3. Rectangle a parallelogram whose each angle is a right angle is called a rectangle. Click to LEARN this concept/topic on Doubtnut

	
68	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **11. PARALLELOGRAM** 4. Square a square is a rectangle with a pair of equal adjacent sides. Click to LEARN this concept/topic on Doubtnut
69	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **11. PARALLELOGRAM** 5. Kite a quadrilateral is a kite if it has two pairs of equal adjacent sides and unequal opposite sides. Click to LEARN this concept/topic on Doubtnut
70	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **12. PROPERTIES OF A PARALLELOGRAM** 1. Theorem in a parallelogram prove that (i)the opposite sides are equal; (ii) the opposite angles are equal ;(iii) diagonals bisect each other. Click to LEARN this concept/topic on Doubtnut
71	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **12. PROPERTIES OF A PARALLELOGRAM** 2. The converse of the above properties are also true i.e.(i) A quadrilateral is a parallelogram if its opposite sides are equal.(ii)A quadrilateral is a parallelogram if its opposite angles are equal.(iii) A quadrilateral is a parallelogram if it has one pair of opposite sides parallel and equal.(iv) A quadrilateral is a parallelogram if its diagonals bisect each other . Click to LEARN this concept/topic on Doubtnut

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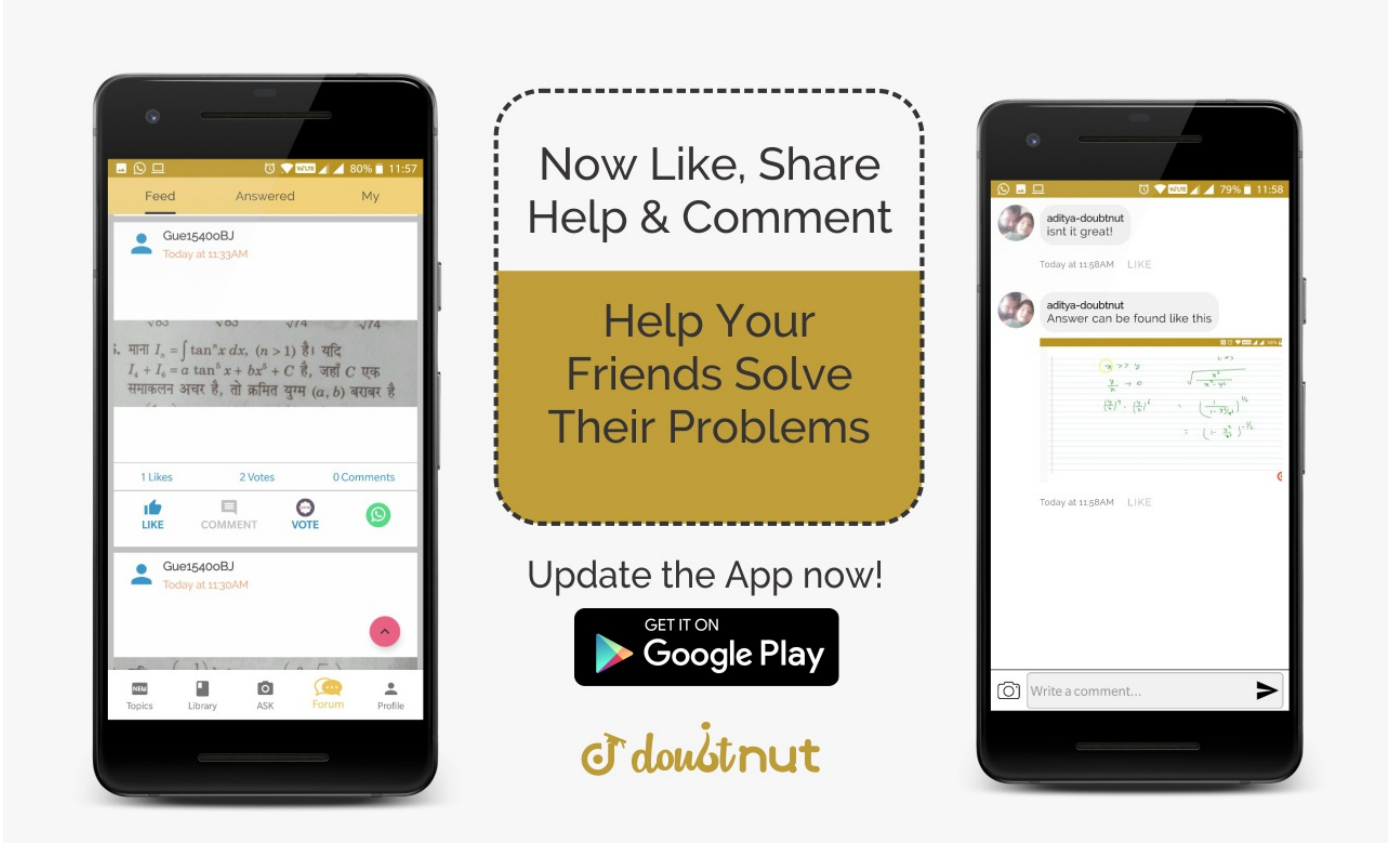
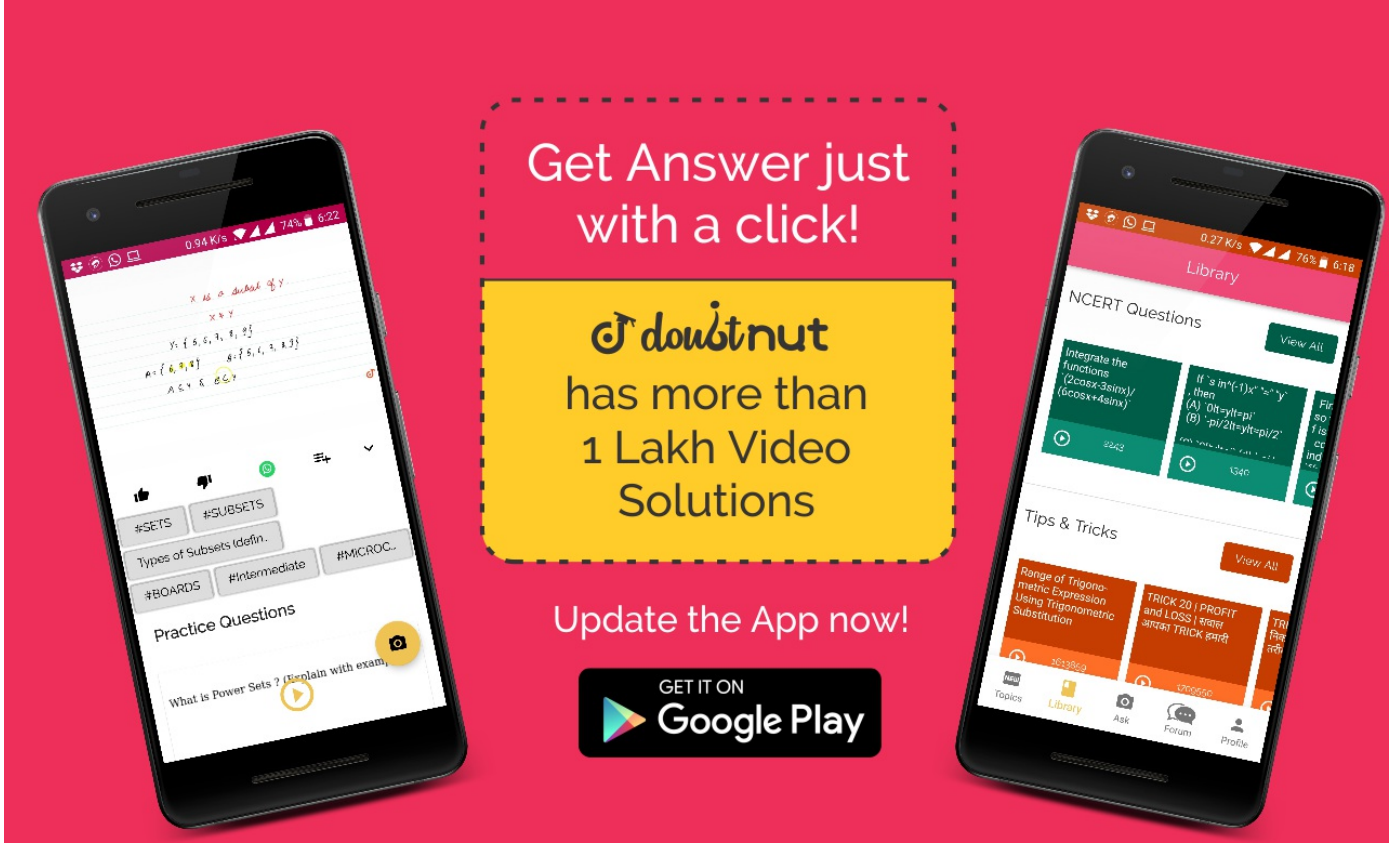


72	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **13. PROPERTIES OF A RHOMBUS** 1. Theorem(Diagonal property of a rhombus) the diagonals of a rhombus bisect each other at right angles. Click to LEARN this concept/topic on Doubtnut
73	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **13. PROPERTIES OF A RHOMBUS** 2. The properties of a rhombus can be summarized as under : (i) All the sides of a rhombus are equal.(ii) The opposite angles of a rhombus are equal. (iii) The adjacent angles of a rhombus are supplementary. (iv) The diagonals of a rhombus bisect each other at right angles. Click to LEARN this concept/topic on Doubtnut
74	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **14. PROPERTIES OF A RECTANGLE** 1. Property 1 each angle of a rectangle is a right angle. Click to LEARN this concept/topic on Doubtnut
75	**CONCEPT FOR BOARDS || Chapter VISUALISING SOLID SHAPES** **14. PROPERTIES OF A RECTANGLE** 2. The diagonals of a rectangle are of equal length. Click to LEARN this concept/topic on Doubtnut



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15. PROPERTIES OF A SQUARE

1. SQUARE

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16. PROPERTIES OF A TRAPEZIUN

1. Trapezium as a quadrilateral having exactly one pair of parallel sides. Therefore if ABCD is a trapezium in which $AB \mid\mid DC$. Then
$(i)\angle B + \angle C$
$= 180^\circ (ii)\angle A +$
$\angle D = 180^\circ$

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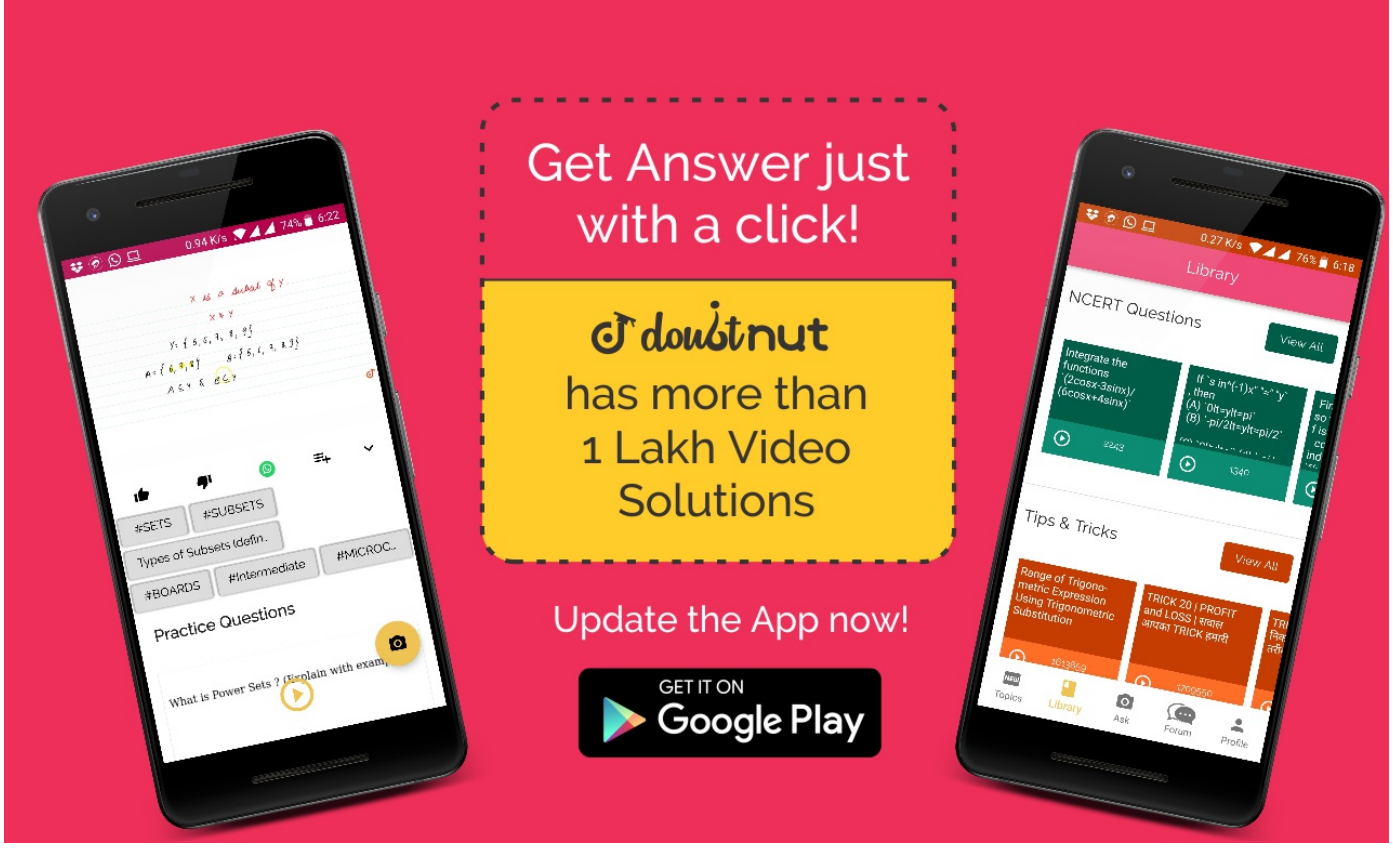
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