

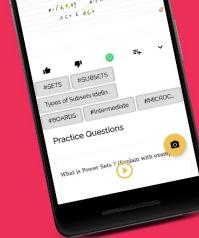
**BOARDS CONCEPTS BOOSTER** 

TRIANGLES

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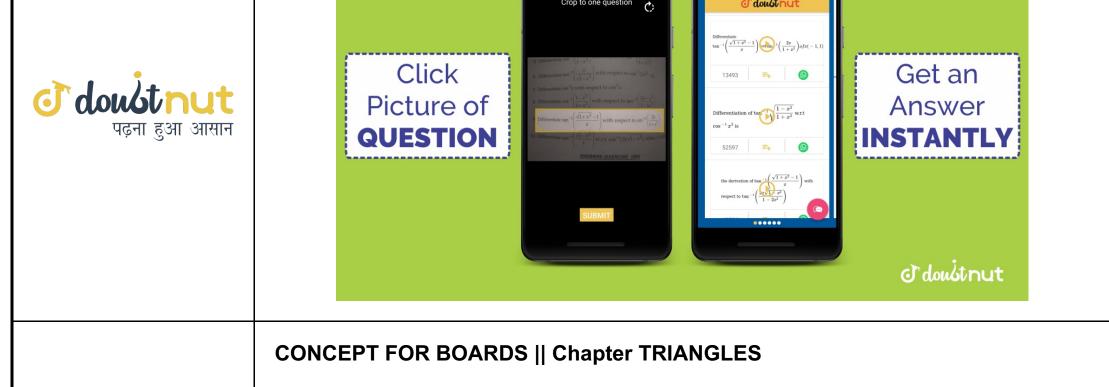
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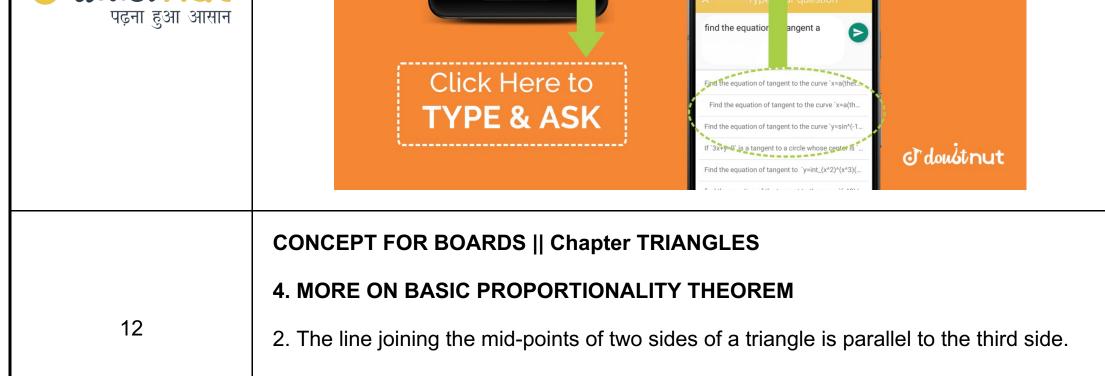
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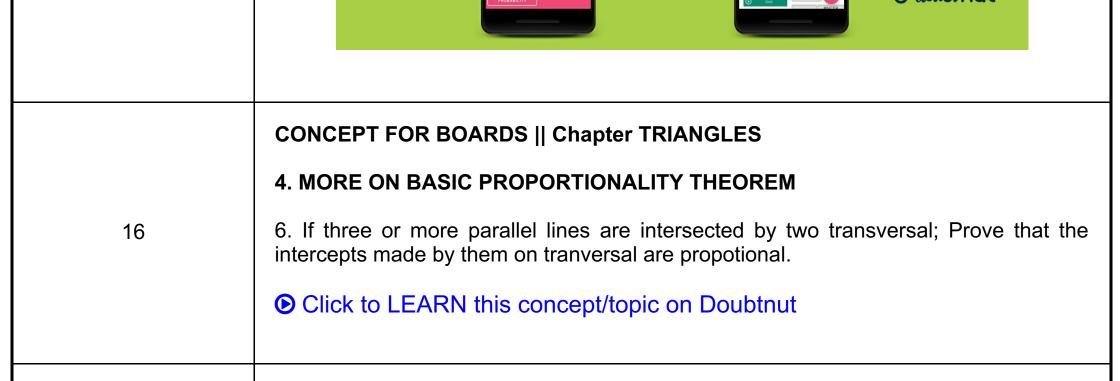
4	<ul> <li>CONCEPT FOR BOARDS    Chapter TRIANGLES</li> <li>1. SIMILARITY</li> <li>4. Similar Triangles and their properties</li> <li>Click to LEARN this concept/topic on Doubtnut</li> </ul>
5	<ul> <li>CONCEPT FOR BOARDS    Chapter TRIANGLES</li> <li>2. SIMILAR TRIANGLES AND THEIR PROPERTIES</li> <li>1. Basic proportionality Theorem or Thales Theorem - If a line is drawn parallel to one side of a triangle intersecting the other two sides; then it divides the two sides in the same ratio.</li> <li>Click to LEARN this concept/topic on Doubtnut</li> </ul>
6	CONCEPT FOR BOARDS    Chapter TRIANGLES 2. SIMILAR TRIANGLES AND THEIR PROPERTIES 2. If in a $\triangle ABC$ ; a line DE  BC; intersects AB in D and AC in E; Then $AB/AD = AC/AE$ Click to LEARN this concept/topic on Doubtnut
7	<ul> <li>CONCEPT FOR BOARDS    Chapter TRIANGLES</li> <li>2. SIMILAR TRIANGLES AND THEIR PROPERTIES</li> <li>3. Converse of Basis proportionality theorem : If a line divides any two sides of a triangle in the same ratio; then the line must be parallel to the third side.</li> <li>Click to LEARN this concept/topic on Doubtnut</li> </ul>



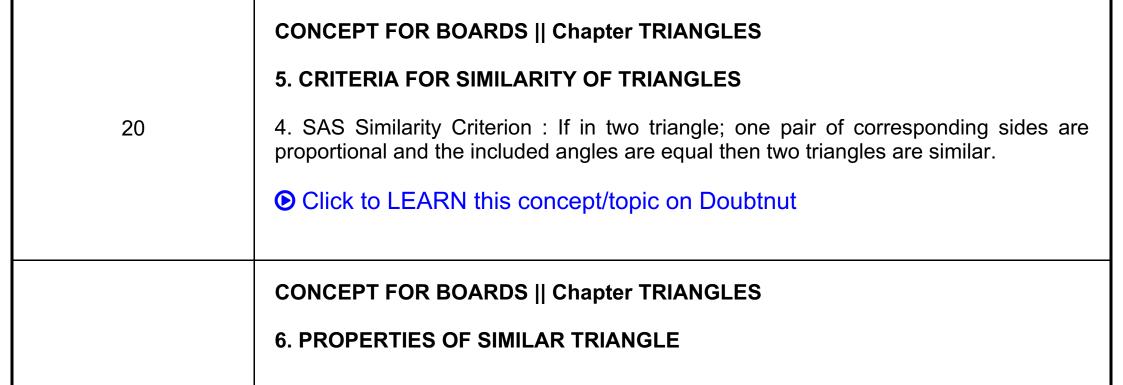
	3. INTERNAL AND EXTERNAL BISECTORS OF AN ANGLE OF A TRIANGLE
8	1. The internal angle bisector of an angle of a triangle divide the opposite side internally in the ratio of the sides containgthe angle
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	CONCEPT FOR BOARDS    Chapter TRIANGLES
	3. INTERNAL AND EXTERNAL BISECTORS OF AN ANGLE OF A TRIANGLE
9	2. If a line through one vertex of a triangle divides the opposite sides in the Ratio of other two sides; then the line bisects the angle at the vertex.
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	CONCEPT FOR BOARDS    Chapter TRIANGLES
	3. INTERNAL AND EXTERNAL BISECTORS OF AN ANGLE OF A TRIANGLE
10	3. The external angle bisector of an angle of a triangle divides the opposite side externally in the ratio of the sides containing the angle.
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	CONCEPT FOR BOARDS    Chapter TRIANGLES
	4. MORE ON BASIC PROPORTIONALITY THEOREM
11	1. The line drawn from the midpoint of one side of a triangle parallel to another side bisects the third side.
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	<ul> <li>If the line segment joining the point A(a,b) and B(c,d) subtends an ac+but and angle 90at the origin, Prove that cos 0 = cost and cost of ac+but and cost 0 = cost and cost of ac+but and cost 0 = cost and cost 0.</li> </ul>
	The points on x+y=4x+y=4 that lie at a unit distance for the line 4x+3y-10= are
	2. Find the degree measures corresponding to the follo radian measures (use r=22/7). (i) $\frac{11}{16}$ (ii) 4 (iii) $\frac{31}{16}$ (iv) Find the radian measures (use r=22/7) is $\frac{11}{16}$ in a final sector of the following to the fol
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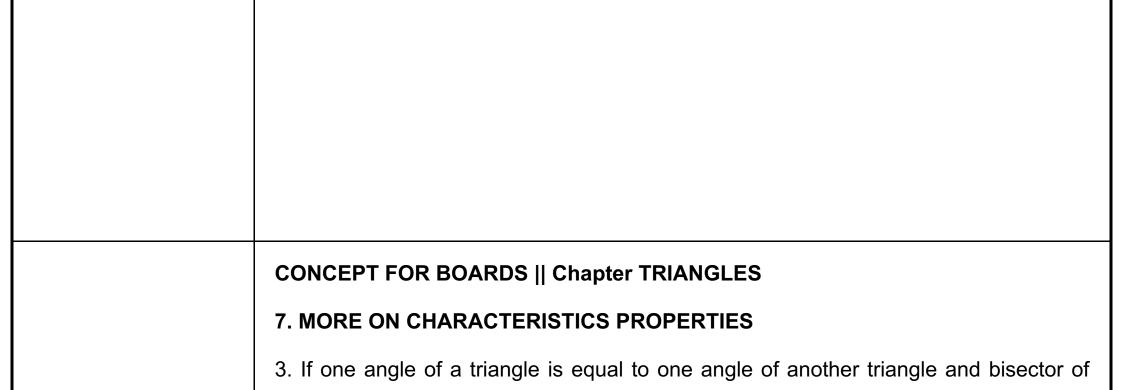
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	CONCEPT FOR BOARDS    Chapter TRIANGLES
	4. MORE ON BASIC PROPORTIONALITY THEOREM
13	3. Prove that the diagonals of a trapezium divide each other proportionally.
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	CONCEPT FOR BOARDS    Chapter TRIANGLES
	4. MORE ON BASIC PROPORTIONALITY THEOREM
14	4. If the diagonals of a quadrilateral divide each other proportionally; then it is a trapezium.
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	CONCEPT FOR BOARDS    Chapter TRIANGLES
	4. MORE ON BASIC PROPORTIONALITY THEOREM
15	5. Any line parallel to the parallel sides of a trapezium divides the non-parallel sides proportionally.
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17	<ul> <li>CONCEPT FOR BOARDS    Chapter TRIANGLES</li> <li>5. CRITERIA FOR SIMILARITY OF TRIANGLES</li> <li>1. AAA Similarity Criterion : If two triangles are equiangular; then they are similar</li> <li>Click to LEARN this concept/topic on Doubtnut</li> </ul>
18	<ul> <li>CONCEPT FOR BOARDS    Chapter TRIANGLES</li> <li>5. CRITERIA FOR SIMILARITY OF TRIANGLES</li> <li>2. If two angles of one triangle are respectively equal to two angles of another triangle; then two triangles are similar.</li> <li>Click to LEARN this concept/topic on Doubtnut</li> </ul>
19	<ul> <li>CONCEPT FOR BOARDS    Chapter TRIANGLES</li> <li>5. CRITERIA FOR SIMILARITY OF TRIANGLES</li> <li>3. SSS Similarity Criterion : If the corresponding sides of two triangles are proportional;then they are similar</li> <li>Click to LEARN this concept/topic on Doubtnut</li> </ul>
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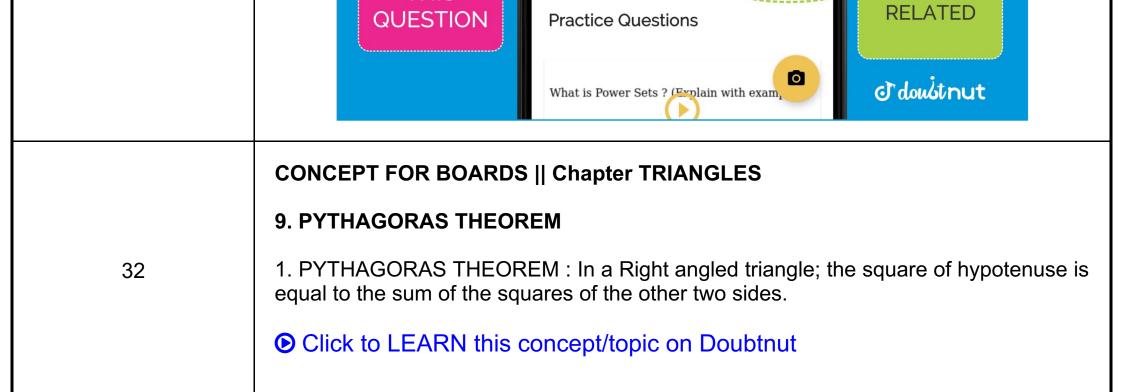
21	<ol> <li>If two triangles are similar; prove that the ratio of the corresponding sides is same as the ratio of corresponding medians.</li> <li>Click to LEARN this concept/topic on Doubtnut</li> </ol>
22	<ul> <li>CONCEPT FOR BOARDS    Chapter TRIANGLES</li> <li>7. MORE ON CHARACTERISTICS PROPERTIES</li> <li>1. If two triangles are similar; prove that the ratio of the corresponding sides is same as the corresponding angle bisector segments.</li> <li>Click to LEARN this concept/topic on Doubtnut</li> </ul>
23	<ul> <li>CONCEPT FOR BOARDS    Chapter TRIANGLES</li> <li>7. MORE ON CHARACTERISTICS PROPERTIES</li> <li>2. If two triangles are similar; prove that the ratio of corresponding sides is equal to the ratio of corresponding altitudes.</li> <li>Click to LEARN this concept/topic on Doubtnut</li> </ul>
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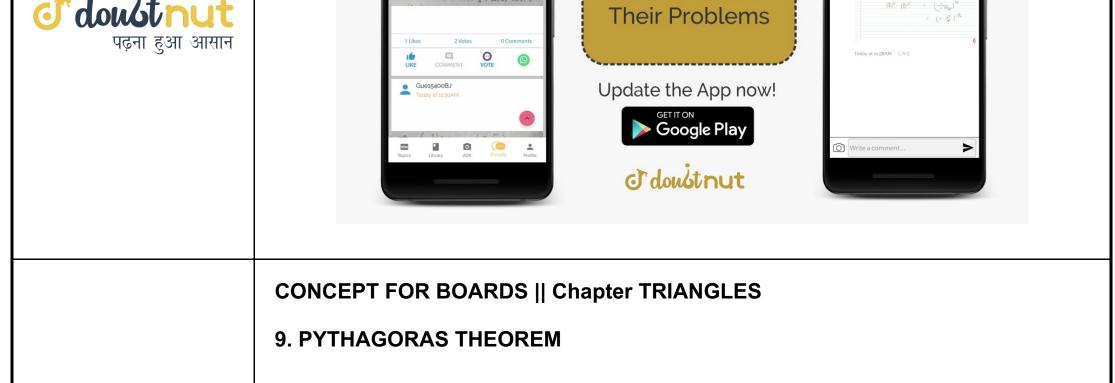
24	these equal angles divide the opposite side in the same ratio; prove that the triangles are similar.
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25	<ul> <li>CONCEPT FOR BOARDS    Chapter TRIANGLES</li> <li>7. MORE ON CHARACTERISTICS PROPERTIES</li> <li>4. If two sides and a median bisecting one of these sides of a triangle are respectively proportional to the two sides and corresponding median of another triangle; then triangle are similar.</li> <li>Click to LEARN this concept/topic on Doubtnut</li> </ul>
26	<ul> <li>CONCEPT FOR BOARDS    Chapter TRIANGLES</li> <li>7. MORE ON CHARACTERISTICS PROPERTIES</li> <li>5. If two sides and a median bisecting the third side of a triangle ar respectively proportional to the corresponding sides and median of the other triangle; then the two triangles are similar.</li> <li>Click to LEARN this concept/topic on Doubtnut</li> </ul>
27	<ul> <li>CONCEPT FOR BOARDS    Chapter TRIANGLES</li> <li>8. AREAS OF TWO SIMILAR TRIANGLES</li> <li>1. The ratio of area of Two similar triangles is equal to the ratio of the squares of any two corresponding sides.</li> <li>Click to LEARN this concept/topic on Doubtnut</li> </ul>
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29	<ul> <li>CONCEPT FOR BOARDS    Chapter TRIANGLES</li> <li>8. AREAS OF TWO SIMILAR TRIANGLES</li> <li>3. The areas of the two similar triangles are in the ratio of the square of the corresponding medians.</li> <li>Click to LEARN this concept/topic on Doubtnut</li> </ul>
30	<ul> <li>CONCEPT FOR BOARDS    Chapter TRIANGLES</li> <li>8. AREAS OF TWO SIMILAR TRIANGLES</li> <li>4. The area of two similar triangle are in the ratio of the square of the corresponding angle bisector segments</li> <li>Click to LEARN this concept/topic on Doubtnut</li> </ul>
31	<ul> <li>CONCEPT FOR BOARDS    Chapter TRIANGLES</li> <li>8. AREAS OF TWO SIMILAR TRIANGLES</li> <li>5. If the area of two similar triangles are equal then the triangles are congruent.</li> <li>Click to LEARN this concept/topic on Doubtnut</li> </ul>
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	CONCEPT FOR BOARDS    Chapter TRIANGLES
	9. PYTHAGORAS THEOREM
33	2. $\triangle ABC$ is an obtuse triangle; obtuse-angled at B. If $AD \perp CB$ ; prove that $(AC)^2 = (AB)^2$ + $(BC)^2 + 2BC$ . $BD$
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	CONCEPT FOR BOARDS    Chapter TRIANGLES
	9. PYTHAGORAS THEOREM
34	3. In fig. $ ot \angle B$ of $\  riangle ABC$ is an acute angle and $AD \perp BC$ ; prove that $AC^2 = AB^2 + BC^2 - 2BC  imes BD$
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	CONCEPT FOR BOARDS    Chapter TRIANGLES
	9. PYTHAGORAS THEOREM
35	4. Prove that in any triangle; the sum ant the squares of any two side is equal to twice the square of half of the third side together with twice the square of the median which bisects the third side.
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36	5. Three times the sum of square of the sides of a triangle is equal to four times the sum of the square of the medians of the triangle.
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	CONCEPT FOR BOARDS    Chapter TRIANGLES
	9. PYTHAGORAS THEOREM
37	6. Converse of Pythagoras theorem : In a triangle; If the square of one side is equal to the sum of the squares of the other two sides., then the angle opposite to the side is a right angle.
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