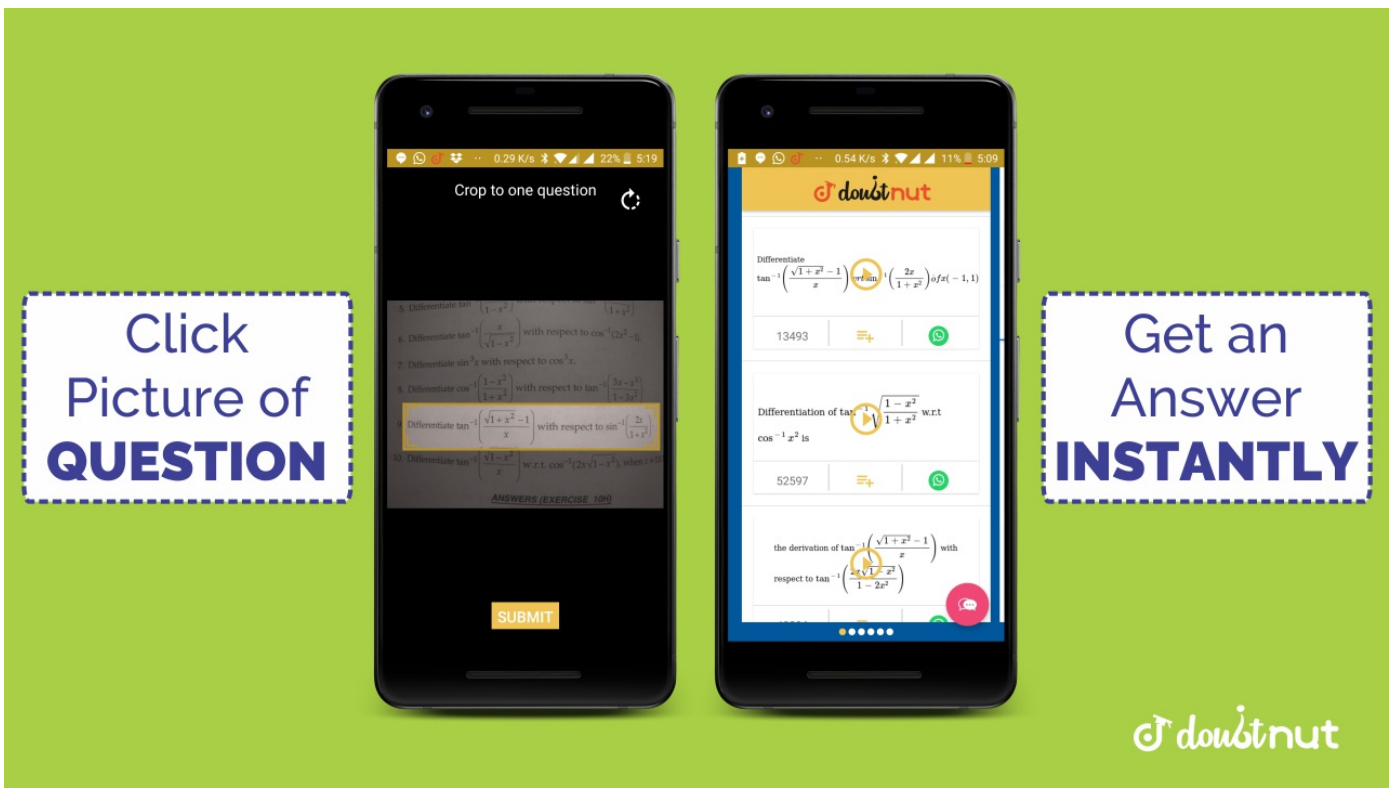
NCERT MATHS SOLUTIONS

Class - 7 || THE TRIANGLE AND ITS PROPERTIES

Ques No.	Question
1	**NCERT - CLASS 7 - CHAPTER 6 THE TRIANGLE AND ITS PROPERTIES - EXERCISE 6.1 - Q 1** In ΔPQR, D is the mid-point of $\overline{QR}$. $then \overline{PM}$ is _____,PD is_____. Is $QM = MR?$ Watch Free Video Solution on Doubtnut
2	**NCERT - CLASS 7 - CHAPTER 6 THE TRIANGLE AND ITS PROPERTIES - EXERCISE 6.2 - Q 1** Find the value of the unknown exterior angle x in the following diagrams: Watch Free Video Solution on Doubtnut
3	**NCERT - CLASS 7 - CHAPTER 6 THE TRIANGLE AND ITS PROPERTIES - EXERCISE 6.2 - Q 2** Find the value of the unknown interior angle x in the following figures: Watch Free Video Solution on Doubtnut
4	**NCERT - CLASS 7 - CHAPTER 6 THE TRIANGLE AND ITS PROPERTIES - EXERCISE 6.3 - Q 1** Find the value of the unknown x in the following diagrams: Watch Free Video Solution on Doubtnut
5	**NCERT - CLASS 7 - CHAPTER 6 THE TRIANGLE AND ITS PROPERTIES - EXERCISE 6.3 - Q 2** Find the values of the unknowns x and y in the following diagrams Watch Free Video Solution on Doubtnut

6	**NCERT - CLASS 7 - CHAPTER 6 THE TRIANGLE AND ITS PROPERTIES - EXERCISE 6.4 - Q 1** Is it possible to have a triangle with the following sides? (i) 2 cm, 3 cm, 5 cm (ii) 3 cm, 6 cm, 7 cm (iii) 6 cm, 3 cm, 2 cm Watch Free Video Solution on Doubtnut
7	**NCERT - CLASS 7 - CHAPTER 6 THE TRIANGLE AND ITS PROPERTIES - EXERCISE 6.4 - Q 2** Take any point O in the interior of a triangle PQR. Is (i) $OP + OQ > PQ$? (ii) $OQ + OR > QR$? (iii) $OR + OP > RP$? Watch Free Video Solution on Doubtnut
8	**NCERT - CLASS 7 - CHAPTER 6 THE TRIANGLE AND ITS PROPERTIES - EXERCISE 6.4 - Q 3** AM is a median of s triangle ABC. Is $AB + BC + CA$ $> 2AM$? (Consider the sides of triangles ΔABM and ΔAMC. Watch Free Video Solution on Doubtnut
9	**NCERT - CLASS 7 - CHAPTER 6 THE TRIANGLE AND ITS PROPERTIES - EXERCISE 6.4 - Q 4** $ABCD$ is a quadrilateral. Is $AB + BC + CD$ $+ DA > AC + BD$? Watch Free Video Solution on Doubtnut

10	**NCERT - CLASS 7 - CHAPTER 6 THE TRIANGLE AND ITS PROPERTIES - EXERCISE 6.4 - Q 5** $ABCD$ is quadrilateral. Is $AB + BC + CD + DA < 2(AC + BD)$? Watch Free Video Solution on Doubtnut
11	**NCERT - CLASS 7 - CHAPTER 6 THE TRIANGLE AND ITS PROPERTIES - EXERCISE 6.4 - Q 6** The lengths of two sides of a triangle are 12 cm and 15 cm. Between what two measures should the length of the third side fall? Watch Free Video Solution on Doubtnut
	
12	**NCERT - CLASS 7 - CHAPTER 6 THE TRIANGLE AND ITS PROPERTIES - EXERCISE 6.5 - Q 1** PQR is a triangle right angled at P. If $PQ = 10cm$ and $PR = 24cm$, find QR Watch Free Video Solution on Doubtnut
13	**NCERT - CLASS 7 - CHAPTER 6 THE TRIANGLE AND ITS PROPERTIES - EXERCISE 6.5 - Q 2** ABC is a triangle right angled at C. If $AB = 25cm$ and $AC = 7cm$, find BC.

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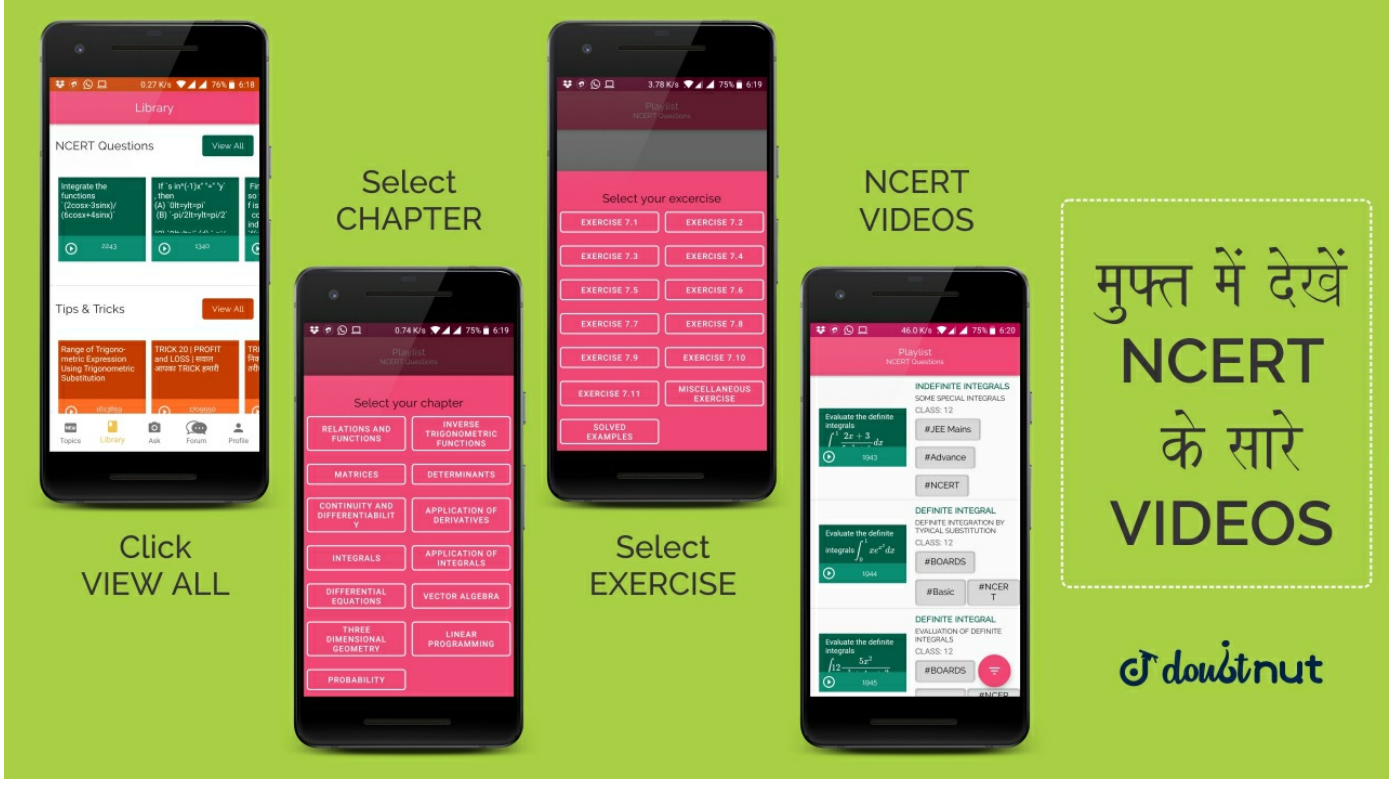
14	**NCERT - CLASS 7 - CHAPTER 6 THE TRIANGLE AND ITS PROPERTIES - EXERCISE 6.5 - Q 3** A 15 m long ladder reached a window 12 m highfrom the ground on placing it against a wall at a distance a. Find the distance of the foot of the ladder from the wall. Watch Free Video Solution on Doubtnut
15	**NCERT - CLASS 7 - CHAPTER 6 THE TRIANGLE AND ITS PROPERTIES - EXERCISE 6.5 - Q 4** Which of the following can be the sides of a right triangle? (i) 2.5 cm,6.5 cm, 6 cm. (ii) 2 cm, 2 cm, 5 cm. (iii) 1.5 cm, 2cm, 2.5 cm. In the case of right-angled triangles, identify the right angles. Watch Free Video Solution on Doubtnut
16	**NCERT - CLASS 7 - CHAPTER 6 THE TRIANGLE AND ITS PROPERTIES - EXERCISE 6.5 - Q 5** A tree is broken at a height of 5 m from the ground and its top touches the ground at a distance of 12 m from the base of the tree. Find the original height of the tree Watch Free Video Solution on Doubtnut
17	**NCERT - CLASS 7 - CHAPTER 6 THE TRIANGLE AND ITS PROPERTIES - EXERCISE 6.5 - Q 6** Angles Q and R of a ΔPQR are 25° and 65°. Write which of the following is true : (i) $PQ^2 + QR^2 = RP^2$ (ii) $PQ^2 + RP^2 = QR^2$ (iii) $RP^2 + QR^2 = PQ^2$ Watch Free Video Solution on Doubtnut

	NCERT - CLASS 7 - CHAPTER 6 THE TRIANGLE AND ITS PROPERTIES - EXERCISE 6.5 - Q 7

18	Find the perimeter of the rectangle whose length is 40 cm and a diagonal is 41 cm. Watch Free Video Solution on Doubtnut
19	**NCERT - CLASS 7 - CHAPTER 6 THE TRIANGLE AND ITS PROPERTIES - EXERCISE 6.5 - Q 8** The diagonals of a rhombus measure 16 cm and 30 cm. Find its perimeter Watch Free Video Solution on Doubtnut
20	**NCERT - CLASS 7 - CHAPTER 6 THE TRIANGLE AND ITS PROPERTIES - SOLVED EXAMPLES - Q 1** Find angle x in Fig 6.11. Watch Free Video Solution on Doubtnut
21	**NCERT - CLASS 7 - CHAPTER 6 THE TRIANGLE AND ITS PROPERTIES - SOLVED EXAMPLES - Q 2** In the given figure (Fig 6.18) find m?P. Watch Free Video Solution on Doubtnut
22	**NCERT - CLASS 7 - CHAPTER 6 THE TRIANGLE AND ITS PROPERTIES - SOLVED EXAMPLES - Q 3** Is there a triangle whose sides have lengths 10.2 cm, 5.8 cm and 4.5 cm? Watch Free Video Solution on Doubtnut
23	**NCERT - CLASS 7 - CHAPTER 6 THE TRIANGLE AND ITS PROPERTIES - SOLVED EXAMPLES - Q 4** The lengths of two sides of a triangle are 6 cm and 8 cm. Between which two numbers can length of the third side fall? Watch Free Video Solution on Doubtnut



NCERT - CLASS 7 - CHAPTER 6 THE TRIANGLE AND ITS PROPERTIES - SOLVED EXAMPLES - Q 5

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Determine whether the triangle whose lengths of sides are 3 cm, 4 cm, 5 cm is a right-angled triangle.

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NCERT - CLASS 7 - CHAPTER 6 THE TRIANGLE AND ITS PROPERTIES - SOLVED EXAMPLES - Q 6

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ΔABC is right-angled at C. If
$AC = 5cm$ and BC
$= 12cm$
find the length of AB.

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