



MATHS

NCERT - NCERT Mathematics(English)

THE TRIANGLE AND ITS PROPERTIES

Exercise 63

1. Find the value of the unknown x in the

following diagrams:

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2. Find the values of the unknowns x and y in

the following diagrams



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

angled triangle.



2. The lengths of two sides of a triangle are 6 cm and 8 cm. Between whichtwo numbers can length of the third side fall?

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

of AB.

A. 17

B. 7

C. 13

D. 14

Answer: C



4. Find angle x in Fig 6.11.



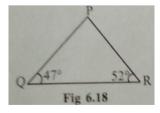


5. Is there a triangle whose sides have lengths

10.2 cm, 5.8 cm and 4.5 cm?

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6. In the given figure (Fig 6.18) find m?P.







1. ABCD is quadrilateral. Is

AB + BC + CD + DA < 2(AC + BD)?

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2. ABCD is a quadrilateral. Is

AB + BC + CD + DA > AC + BD?

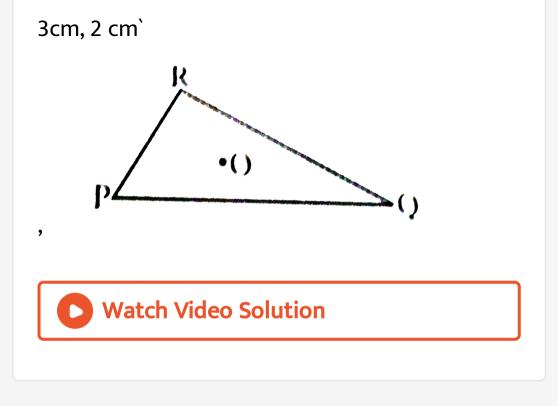
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3. The lengths of two sides of a triangle are 12 cm and 15 cm. Between what two measures should the length of the third side fall?



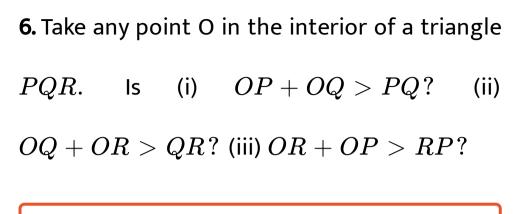
4. Is there any triangle possible with the given sides ?

(i) 2cm, 3cm, 5cm(ii)3cm, 6cm, 7cm(iii)6cm,



5. AM is a median of s triangle ABC. Is AB + BC + CA > 2AM? (Consider the sides of triangles ΔABM and ΔAMC .

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1. A tree is broken at a height of 5 m from the groundand its top touches the ground at a

distance of 12 m from the base of the tree.

Find the original height of the tree

A. 17m

B. 18m

 $\mathsf{C}.\,16m$

D. 14m

Answer: B



2. 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) $RP^2 + QR^2 = PQ^2$

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3. Find the perimeter of the rectangle whose length is 40 cm and a diagonal is 41 cm.

B. 89cm

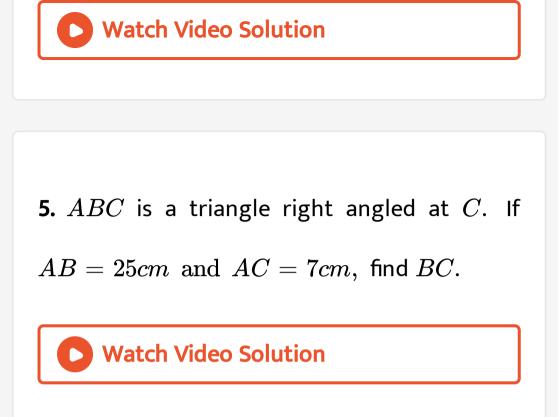
C. 98cm

D. 88*cm*

Answer: C

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4. Which of the following can be the sides of a righttriangle?(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 theright angles.



6. 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 theladder from the wall.





7. PQR is a triangle right angled at P. If

PQ = 10cm and PR = 24cm, find QR

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8. The diagonals of a rhombus measure 16 cm

and 30 cm. Find its perimeter

A. 62cm

B. 65*cm*

C. 61*cm*

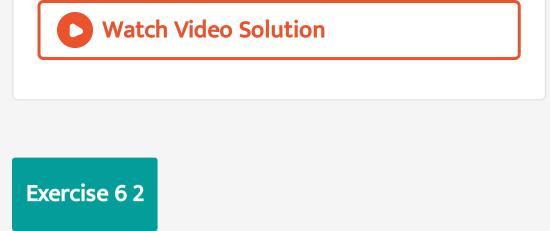
 $\mathsf{D.}\,68cm$

Answer: D



Exercise 61

1. In ΔPQR , D is the mid-point of \overline{QR} . then \overline{PM} is _____, PD is _____. Is QM = MR?



- 1. Find the value of the unknown interior angle
- x in the following figures:

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2. Find the value of the unknown exterior angle x in the following diagrams:



