



MATHS

BOOKS - NCERT MATHS (ENGLISH)

CONSTRUCTIONS

Multiple Choice Questions

1. With the help of a ruler and a compass it is not

possible to construct an angle of

A. 37.5°

B. 40°

C. 22.5°

D. 67.5°

Answer: B

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2. The constrution of Δ ABC , given that BC = 6cm, $\angle B = 45^{\circ}$ is not possible when difference of AB and AC is equal to

 $\mathsf{A.}\,6.9\,\mathsf{cm}$

 $\mathsf{B.}\,5.2\,\mathsf{cm}$

 $\mathsf{C.}\,5.0\mathsf{cm}$

 $\mathsf{D.}\,4.0\,\mathsf{cm}$

Answer: A



3. The constuction of a Δ ABC, given that BC = 3cm,

 $\angle C = 60^{\circ}$ is possible when difference of AB and AC is equal to

A. 3.2cm

B. 3.1cm

C. 3cm

 $\mathrm{D.}\,2.8\,\mathrm{cm}$

Answer: D

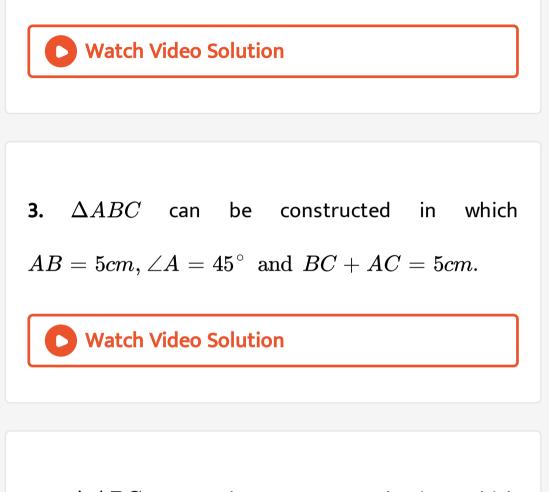
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Very Short Answer Type Questions

1. An angle of 52.5° can be constructed.

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2. An angle of 42.5° can be constructed.



4. ΔABC can be constructed in which $BC=6cm, \ angle C=30^\circ$ and AC-AB=4cm.

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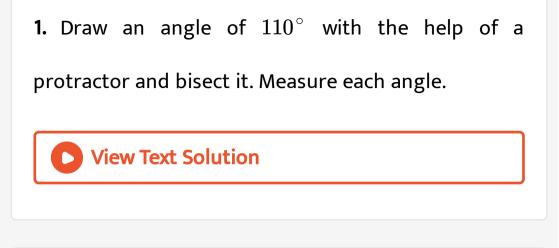
5. A ΔABC can be constructed in which $\angle B=105^\circ, \angle C=90^\circ$ and AB+BC+CA=10cm

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6. A ΔABC can be constructed in which $\angle B=60^\circ, \angle C=45^\circ$ and AB+BC+CA=12cm

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Short Answer Type Questions



2. Draw a line segment AB of 4cm in length . Draw a

line perpendicular to AB through A and B,

respectively. Are these lines parallel?

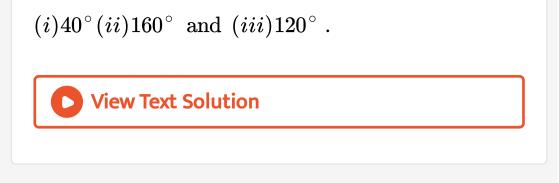


3. Draw an angle of $80^{\,\circ}\,$ with the help of protractor .

Then,

construct

angles

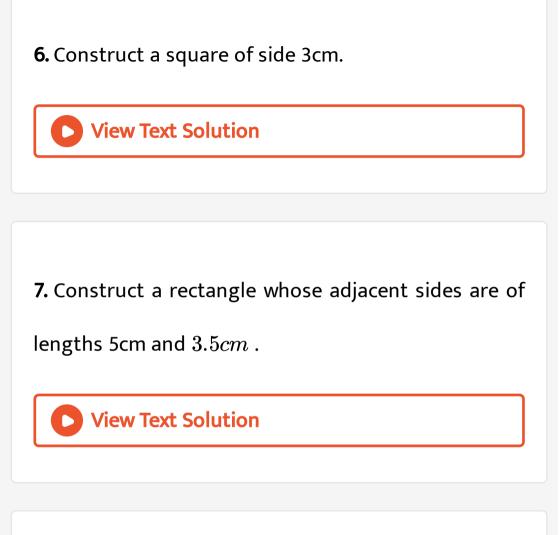


4. Construct a triangle whose sides are 3.6 cm , 3.0cm and 4.8cm[.] Bisect the smallest angle and measure each part.



5. Construct a ΔABC in which $BC = 5cm, \angle B = 60^{\circ}$ and AC + AB = 7.5cm.





8. Construct a rhombus whose side is of length

3.4cm and one of its angles is 45° .

Long Answer Type Questions

1. A triangle if its perimeter is 10.4cm and two angles

are $45^\circ~{
m and}~120^\circ$.

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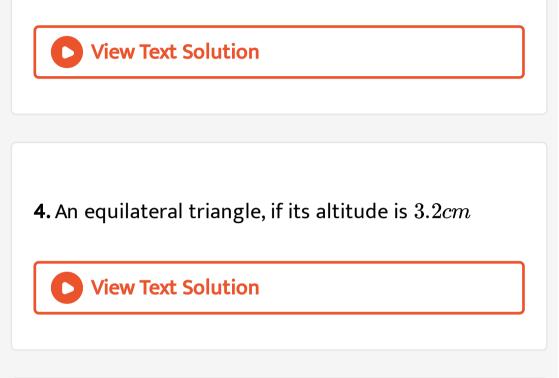
2. A ΔPQR , given that QR = 3cm, $\angle PQR = 45^{\circ}$

and QP - PR = 2cm.

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3. A right triangle when one side is 3.5cm and sum of

other sides and the hypotenuse is 5.5cm.



5. A rhombus whose diagonals are 4cm and 6cm in

lengths.

