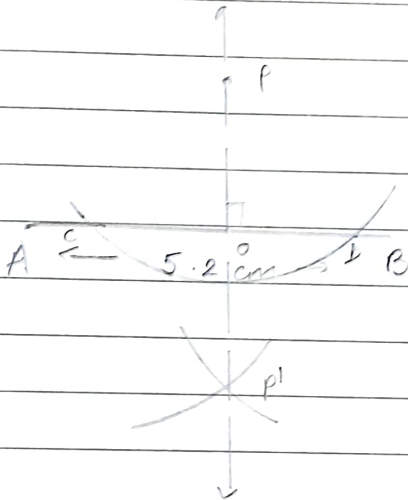


Exercise - 22

Soln-1. $AB = 5.2\text{cm}$, point P outside line AB by using ruler and compasses

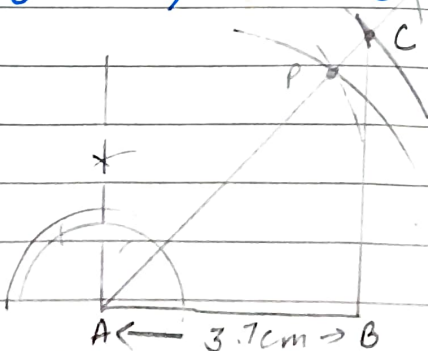


Steps of Construction:

1. Draw AB of 5.2cm by using ruler.
2. With P as a centre and suitable radius cut the line AB at two point C and D .
3. Now C and D as a centre and radius cut the arc at P' .
4. Join PP'
5. PP' is the required perpendicular.

Soln-3. Construct $\triangle ABC$.

(ii) $AB = 3.7\text{cm}$, $\angle A = 45^\circ$, $AC = 5.3\text{cm}$



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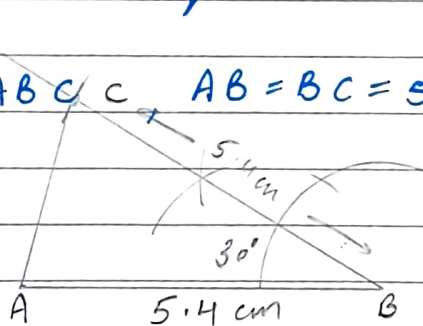
Topic: Chapter - 22 : Construction

Steps of Constructions

1. Draw a line segment $AB = 3.7 \text{ cm}$
2. At A construct 90° , then 45° by using ruler and compass.
3. Now A as a centre and radius 5.3 cm cut the 45° line and mark as 'C'
4. Join BC.

$\triangle ABC$ is the required triangle.

Soln. Isosceles $\triangle ABC$, $AB = BC = 5.4 \text{ cm}$, $\angle B = 30^\circ$

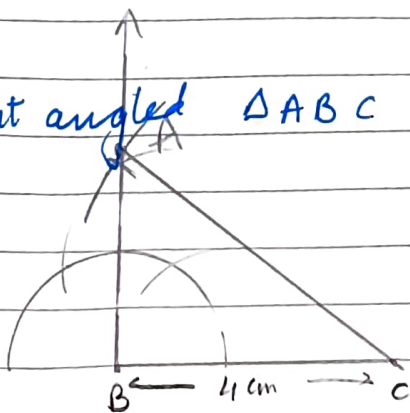


Steps of Construction

1. Draw a line segment AB of 5.4 cm .
2. At B construct 30° .
3. With B as a centre and radius 5.4 cm cut the line at C.
4. Join AC

$\triangle ABC$ is the required isosceles triangle.

Soln. right angled $\triangle ABC$, $\angle B = 90^\circ$, $BC = 4 \text{ cm}$, $CA = 5 \text{ cm}$



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Steps of Construction

1. Draw a line segment $BC = 4\text{cm}$
2. At B construct 90°
3. With C as a center and radius 5cm cut the previous line at A
4. Join AC

$\triangle ABC$ is the required right angled triangle.

