

Assignment-5 Latex Report

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• **Exercise 2.11**

1 Draw an equilateral triangle of side 5.5.

1.1 Solution

Let $\triangle ABC$ be an equilateral triangle of side 5.5

Since ,In an equilateral triangle all sides are equal to each other and also each angle is equal to 60° .

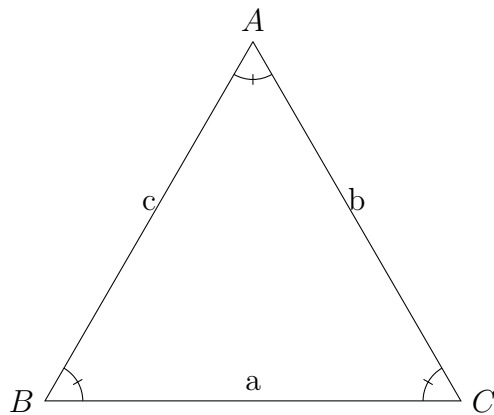
Therefore,

$$a=b=c=5.5$$

and

$$\angle A=\angle B=\angle C=60^\circ$$

Equilateral triangle ABC



Note: Figure generated using latex

1.2 Figure of $\triangle ABC$,

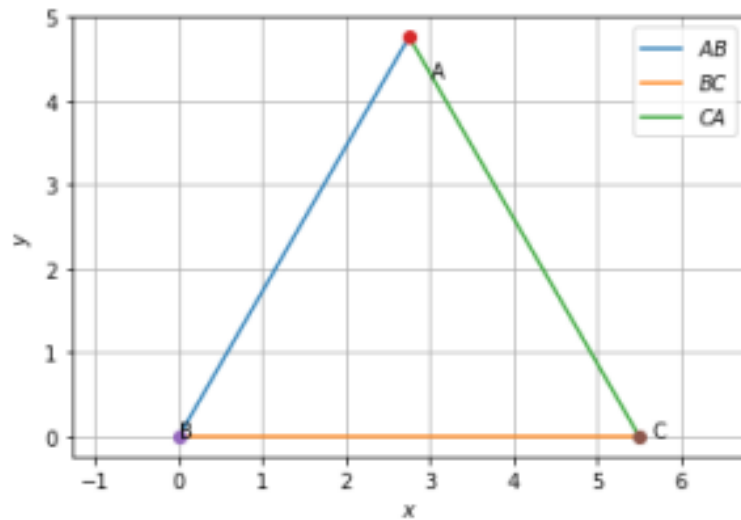


Figure 1: Generated using python

• Exercise 2.12

2 Draw a $\triangle PQR$ with $PQ=4, QR=3.5$ and $PR=4$. What type of triangle is this?

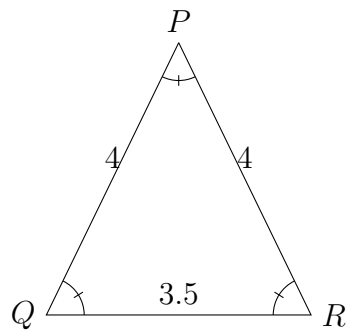
2.1 Solution

In the given $\triangle PQR$,
 $PQ=4, QR=3.5$ and $PR=4$
 or we can say,
 $PQ=r=4$,
 $QR=p=3.5$
 and
 $PR=q=4$

In the given $\triangle PQR$, two sides are of equal length. (i.e $PQ=PR=4$) or ($r=q=4$) which is the property of an isosceles triangle.

Therefore, the given $\triangle PQR$ is an isosceles triangle.

Figure of triangle PQR



Note: Figure generated using latex.

2.2 Figure of $\triangle PQR$

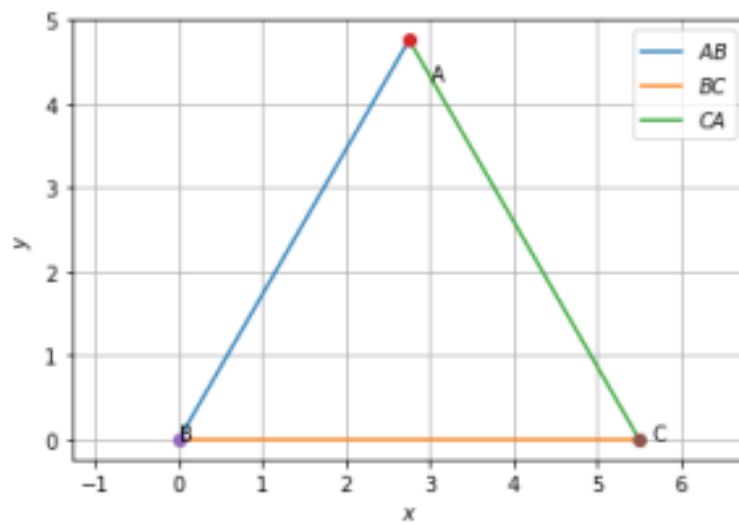


Figure 2: Generated using python