ASSIGNMENT-4

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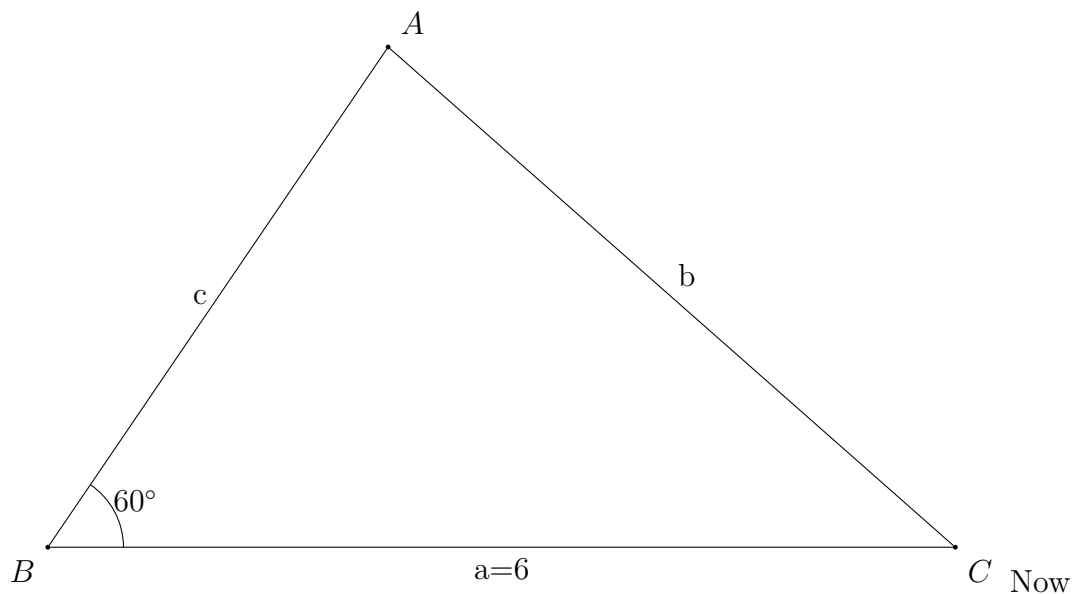
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1 Question:-

In ΔABC, a=6 ,$\angle$B = 60° and b-c=2. sketch the triangle.

2 Solution:-

Given, a=6 , $\angle$B = 60° and b-c=2.

Now
we know that,
Let x=b^2+a-c^2
and y=2(a)(c)
Therefore,cos60°=$\frac{x}{y}$
$\frac{1}{2}$=$\frac{x}{y}$
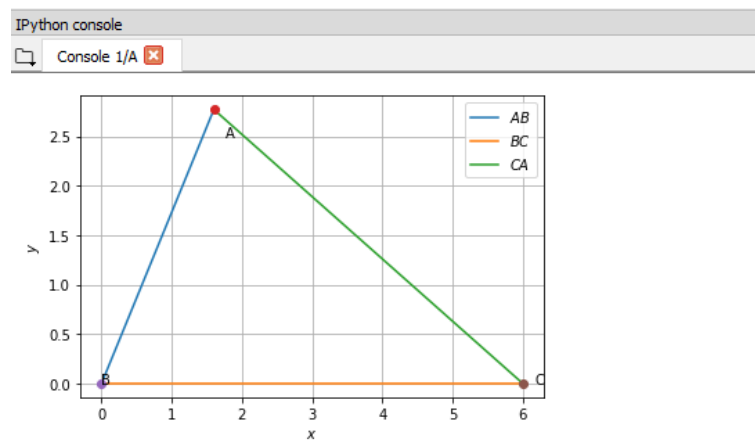6c=c^2+36-4-c^2-4c

6c+4c=32

c=3.2,b=c+2=5.2

2.1   Output of Python code:-

Figure 1: Fig generated using python