3.3.7

AI24BTECH11031 - Shivram S

Question:

Write the steps of construction for drawing a ΔABC in which $BC = 8cm$, $\angle B = 45°$ and $\angle C = 30°$.

Solution:

1) Draw a line segment BC of length $8cm$ using a ruler.
2) At point B construct $\angle XBC$ of measure $45°$.
3) At point C construct $\angle YCB$ of measure $30°$
4) Extend BX and CY and label their point of intersection as A.

ΔABC is the required triangle.

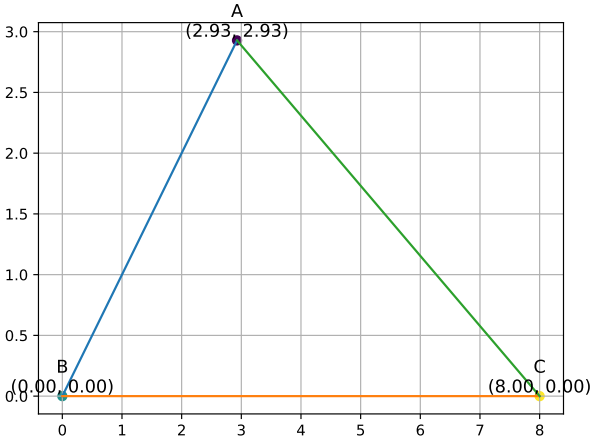

Fig. 4.1: Triangle ABC where $BC = 8cm$, $\angle B = 45°$ and $\angle C = 30°$