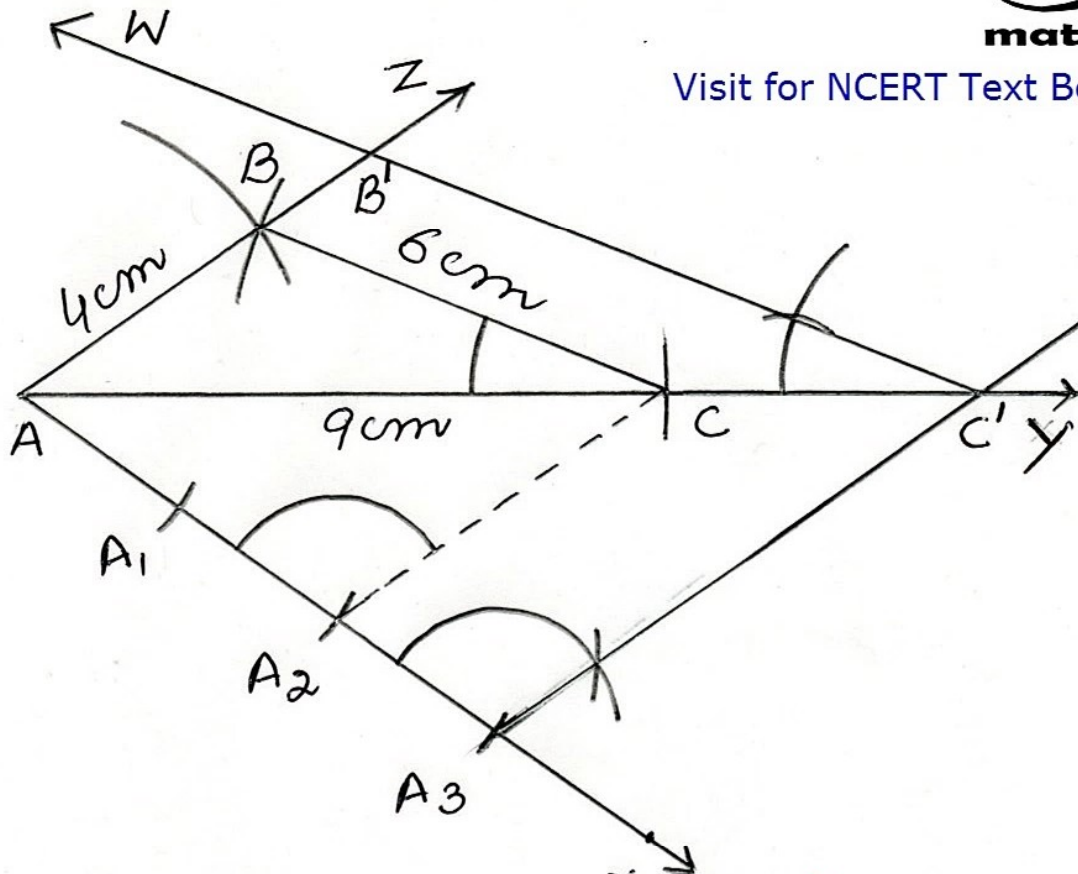




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Justification *steps - similar to earlier qs*

$\Delta AA_2C \sim \Delta AA_3C'$ by AA cor $\left\{ \begin{array}{l} \angle YAX = \angle YAX \\ \angle AA_2C = \angle AA_3C' \end{array} \right.$

$$\frac{AA_2}{AA_3} = \frac{AC}{AC'}$$

$$\frac{2}{3} = \frac{AC}{AC'}$$

$$\Rightarrow AC' = \frac{3}{2} AC$$

$$\text{Sim. } AB' = \frac{3}{2} AB$$

no Δ s are not congruent they are similar