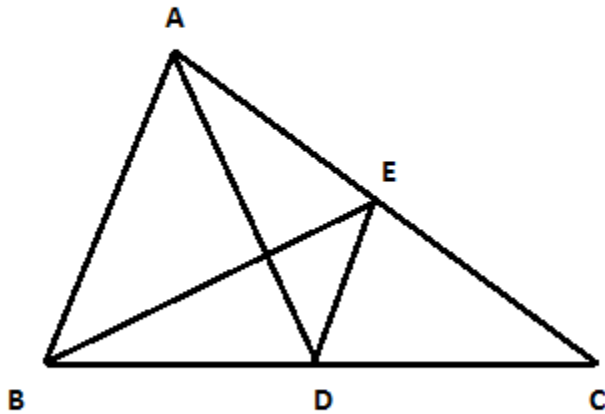


Answer on Question #48127 – Math – Geometry

If AD is a median of triangle ABC and $DE \parallel BA$. Show that BE is also a median of triangle ABC .

Solution



$\triangle ABC \sim \triangle ECD$ (AAA).

So, $\frac{BC}{DC} = \frac{AC}{CE}$.

AD - median $\rightarrow \frac{BC}{DC} = 2 \rightarrow \frac{AC}{CE} = 2 \rightarrow CE = \frac{AC}{2}$.

Thus, BE - median.