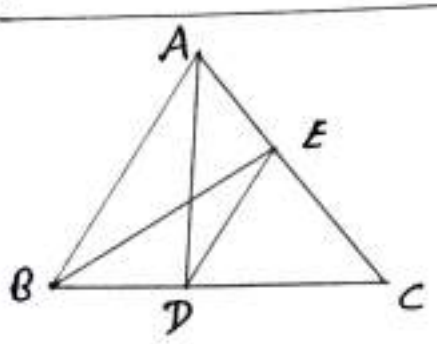
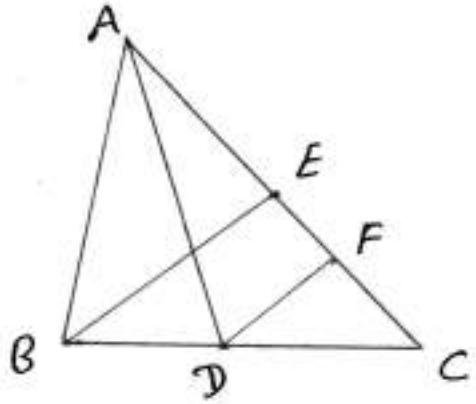
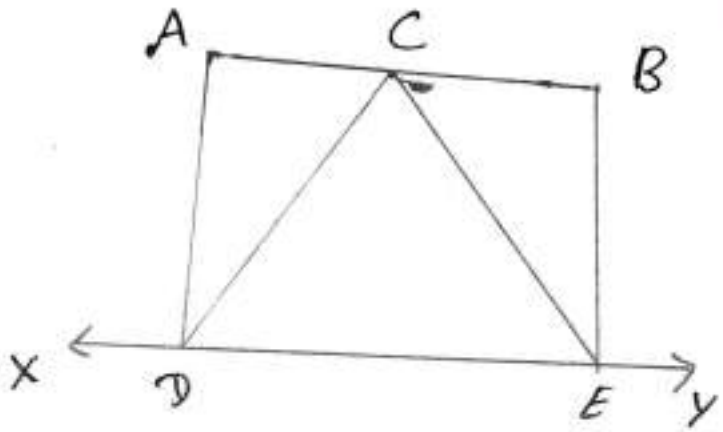
Q.23- In the adjoining figure, AD is a median of $\triangle ABC$ and DE $\parallel$ BA. Show that BE is also a median of $\triangle ABC$.



Q.24- In the adjoining figure, AD and BE are the medians of $\triangle ABC$ and DF $\parallel$ BE. Show that $CF = \frac{1}{4} AC$.



Q.25- In the adjoining figure, two points A and B lie on the same side of a line XY. If AD $\perp$ XY, BE $\perp$ XY and C is the midpoint of AB, prove that CD = CE.



Q.26- The parallel sides of a trapezium are a and b respectively. Find the length of the line segment joining the midpoints of its non-parallel sides.