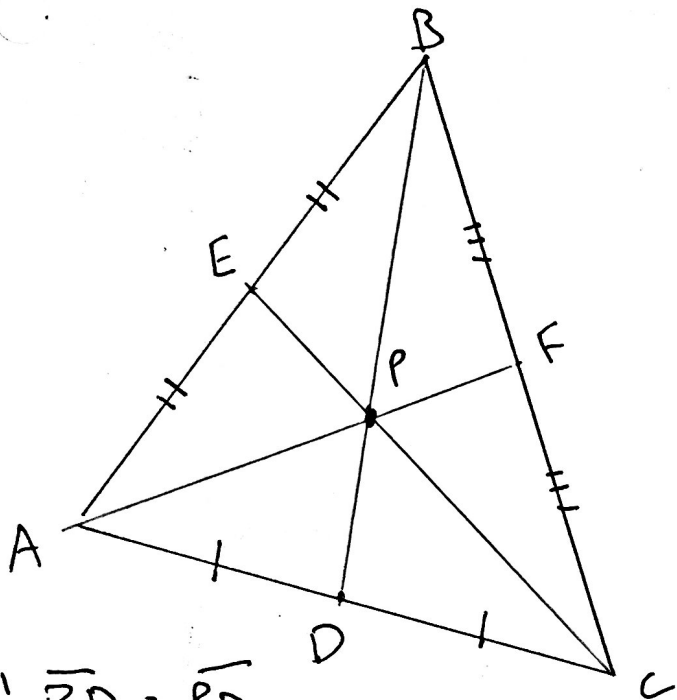
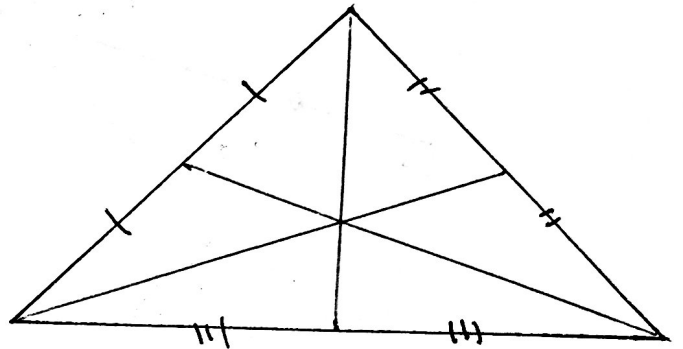


CENTROID



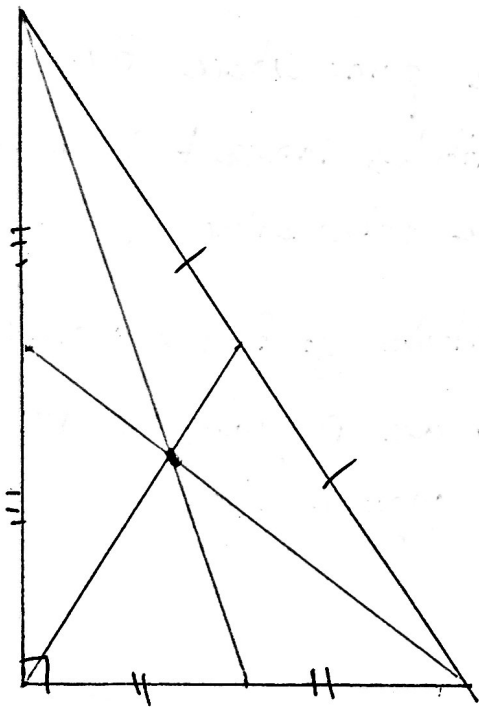
$$\frac{1}{3} \overline{BD} = \overline{PD}$$

$$\frac{2}{3} \overline{BD} = \overline{BP}$$

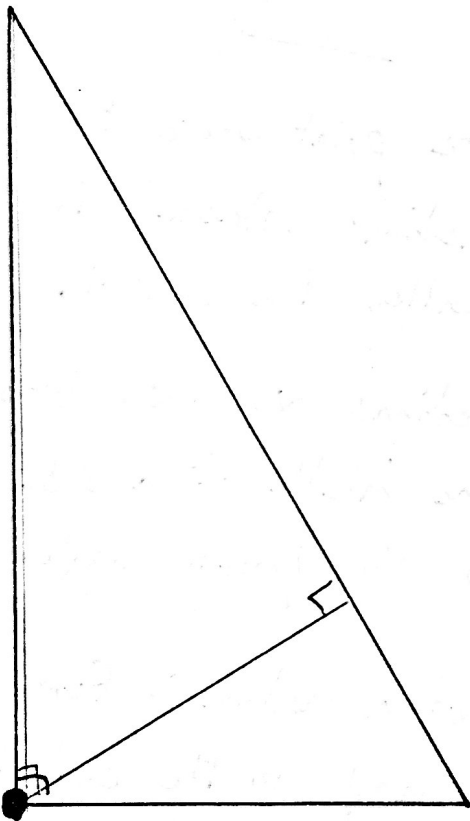
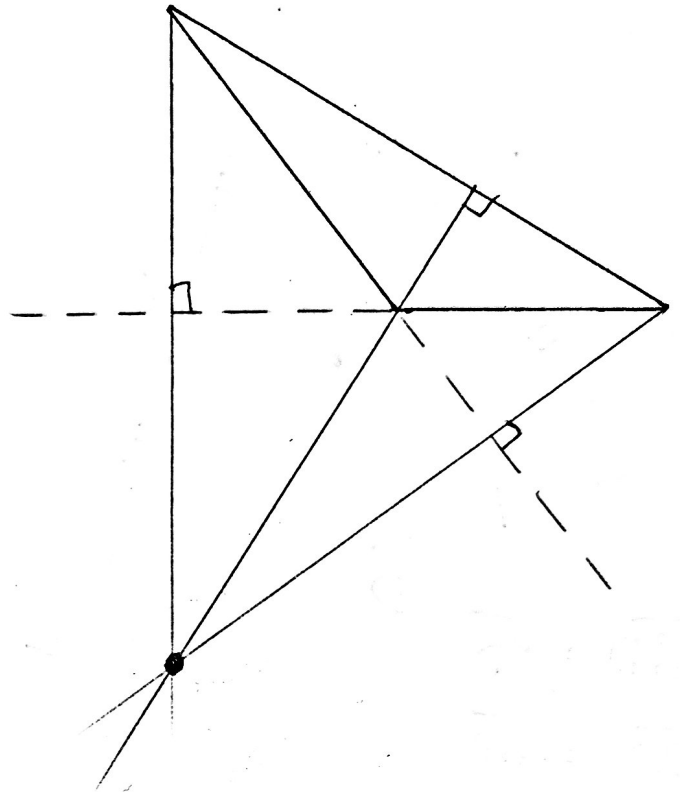
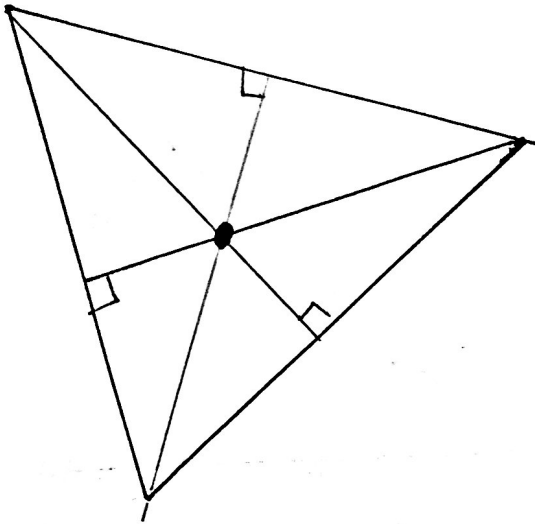


Notes:

- the point where the medians intersect is called the centroid
- medians are lines from the middle of a side to the opposite angle
- $\frac{2}{3}$ of a median is from the angle to the centroid



ORTHOCENTER



Notes:

- the point where the altitudes intersect is called the orthocenter
- altitudes go from a vertex and are perpendicular to the opposite side