

Medians, Altitudes and Bisectors

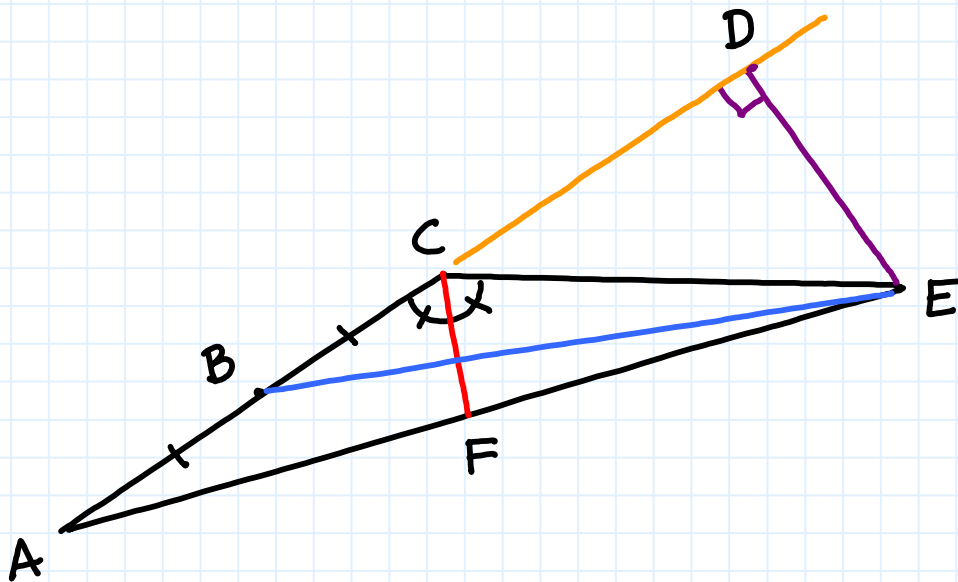
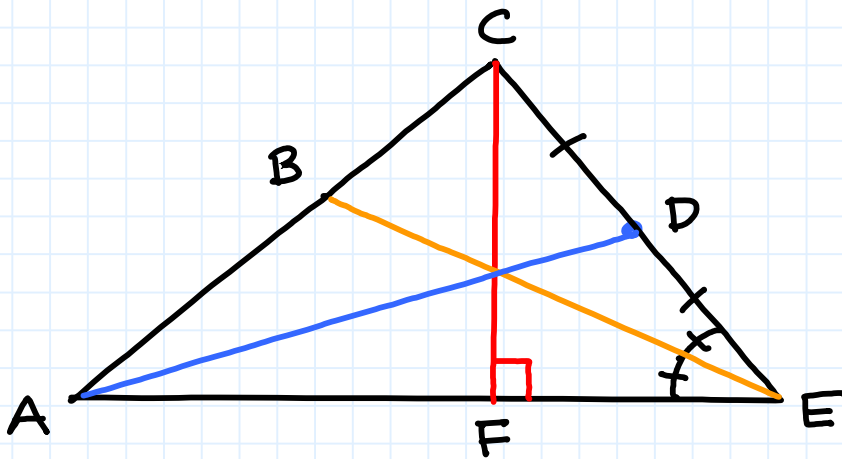


Overview of problems



Example Set: A

For the figures below identify a median, altitude and angle bisector





Example Set: B

Draw a right triangle ABC. Label an altitude. Draw an angle bisector of angle B. Also draw the median from vertex C.

Draw an isosceles triangle. Then draw two altitudes and one angle bisector.

Draw a line segment BC. Then draw its perpendicular bisector at point D. Next plot a point on the perpendicular bisector, point A. Form the triangle ABC. Study the figure- what special properties does the figure appear to contain?

Medians, Altitudes and Bisectors

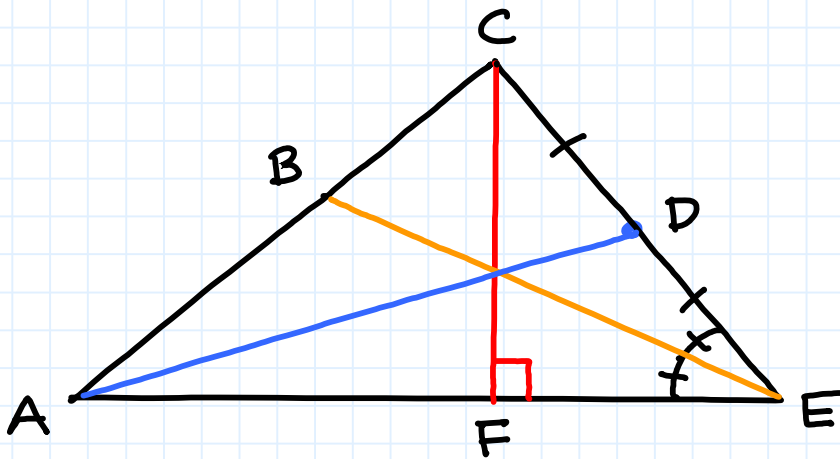


Overview of problems- KEY

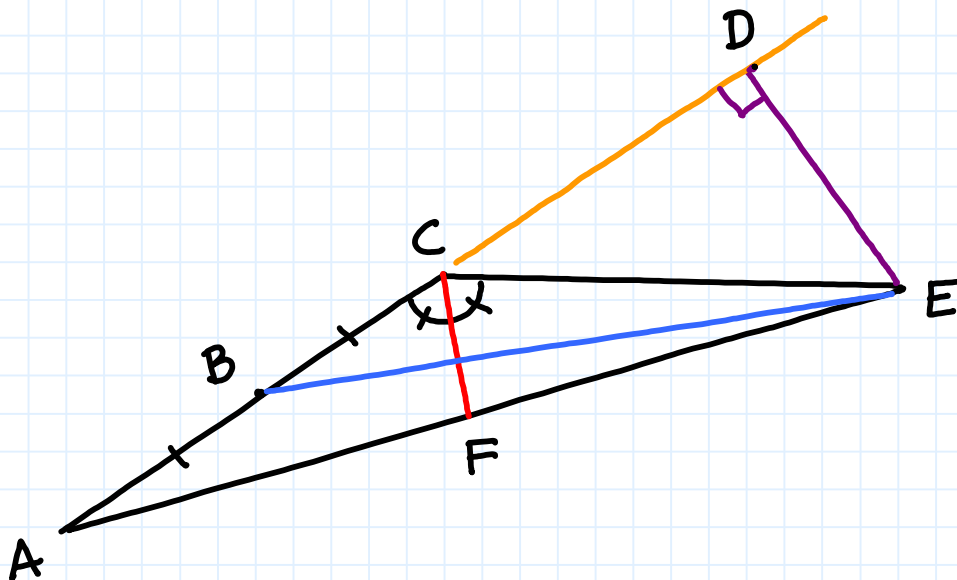


Example Set: A

For the figures below identify a median, altitude and angle bisector



Med: \overline{AD}
Alt: \overline{CF}
 \angle Bis: \overline{EB}

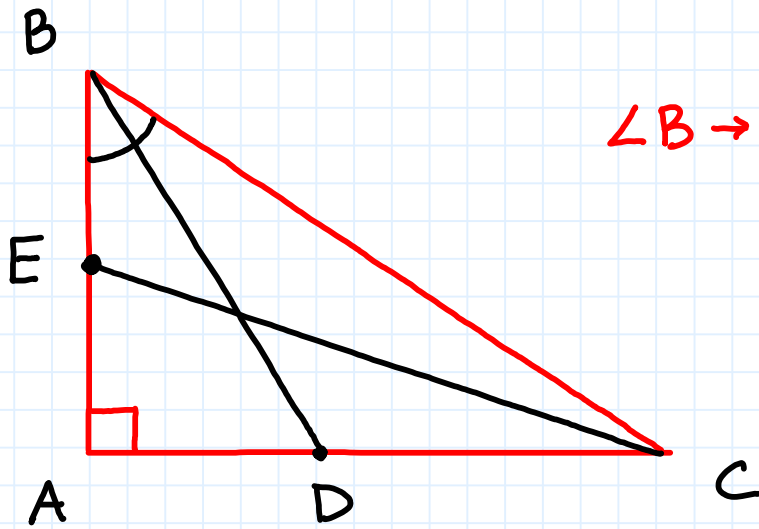


Med: \overline{EB}
Alt: \overline{ED}
 \angle Bis: \overline{CF}



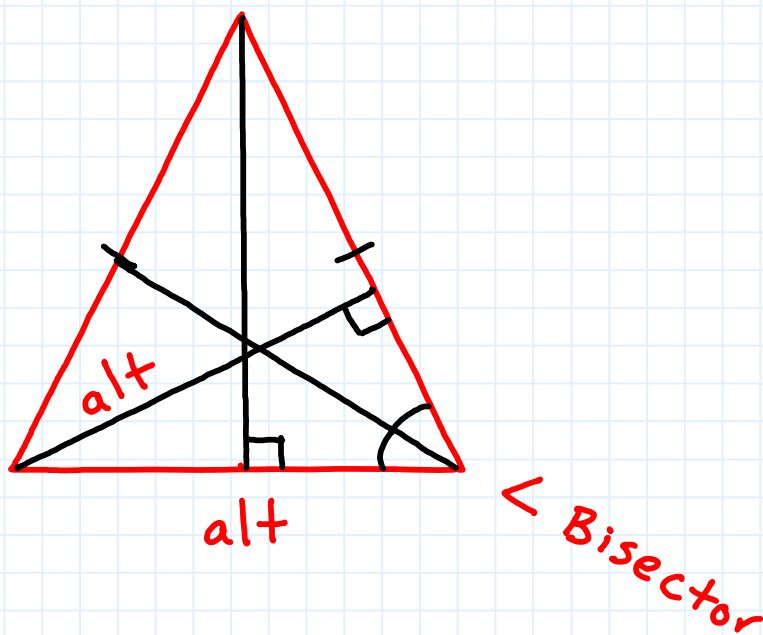
Example Set: B

Draw a right triangle ABC . Label an altitude. Draw an angle bisector of angle B . Also draw the median from vertex C .

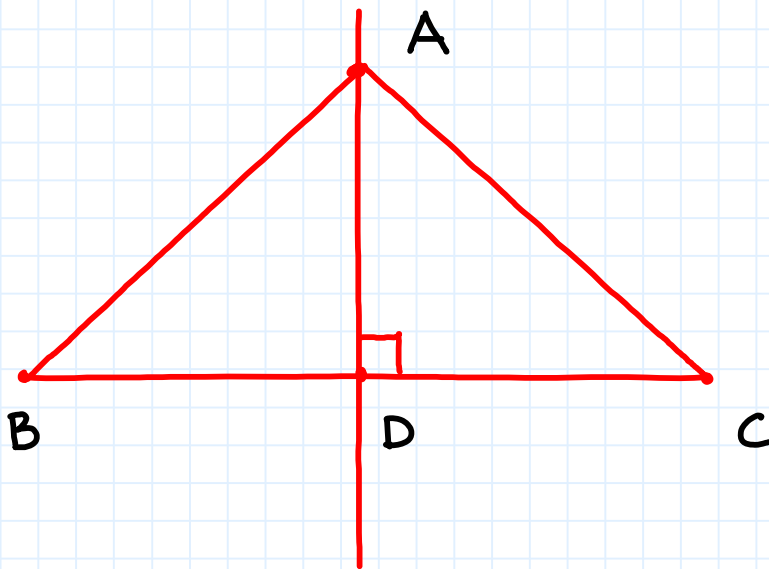


Alt: \overline{BD}
 $\angle B \rightarrow \angle$ Bis: \overline{BE}
Med: \overline{CD}

Draw an isosceles triangle. Then draw two altitudes and one angle bisector.



Draw a line segment BC . Then draw its perpendicular bisector at point D . Next plot a point on the perpendicular bisector, point A . Form the triangle ABC . Study the figure—what special properties does the figure appear to contain?



$$\overline{AB} \cong \overline{AC}$$

$\triangle ABC$ is
an isosceles

$$\angle B \cong \angle C$$