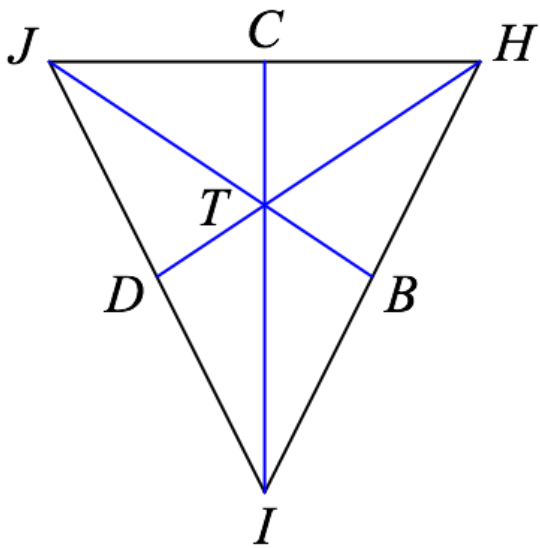
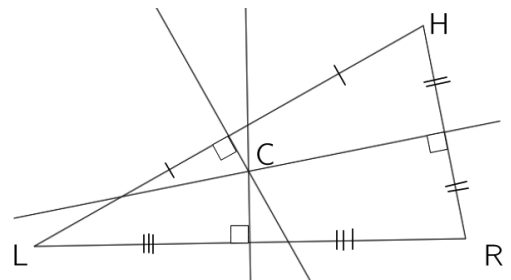
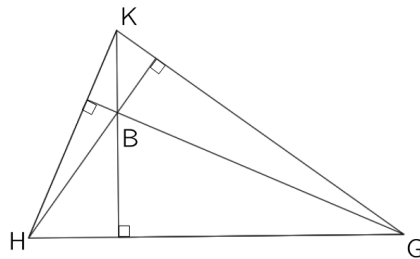
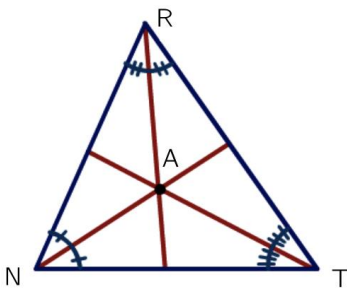


- Find the coordinates of the centroid of triangle ABC with vertices located at A(-2,3) B(1,5) and C(2,-4)

- JB, HD, and IC are medians of  $\triangle JHI$ . If  $DH=24$  and  $JD=10$ , find the lengths of DT and JI.

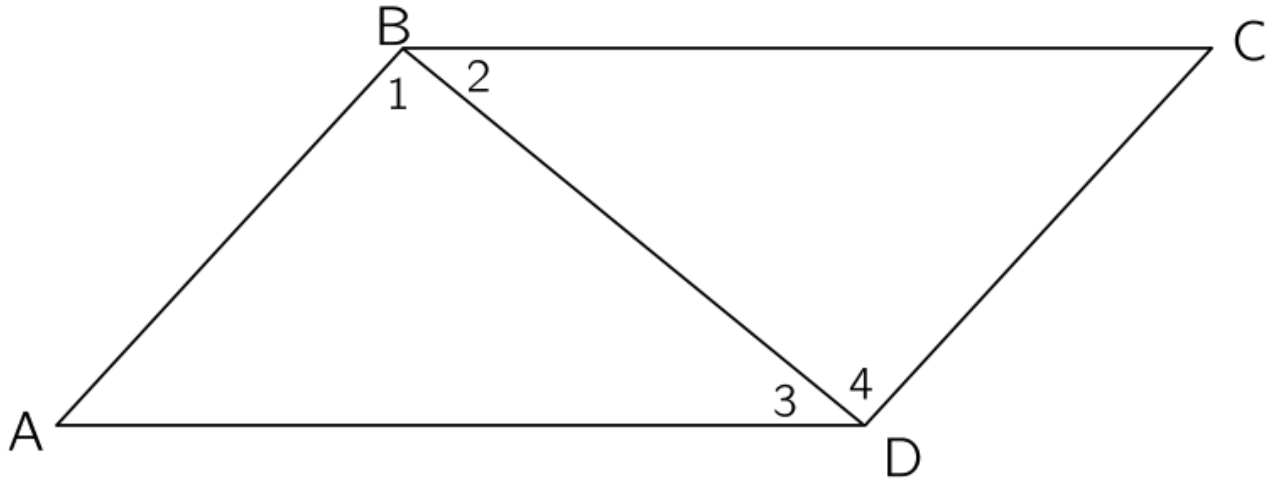


- Identify which points among A, B, and C are the the orthocenter, circumcenter, and incenter. Explain how you know for each classification.



SRT-B5b

Complete the proof using the choices provided. Use as many steps as needed.



GIVEN:  $\overline{AB} \parallel \overline{CD}$  and  $\overline{BC} \parallel \overline{DA}$

PROVE:  $\overline{AB} \cong \overline{CD}$

Statements	Reasons
1. $\overline{AB} \parallel \overline{CD}$ and $\overline{BC} \parallel \overline{DA}$	1. Given

Choices:

Vertical Angles	Alternate Interior Angles	ASA	AAS	SSS	HL
Reflexive Property	$\angle 1 \cong \angle 2$ and $\angle 3 \cong \angle 4$	$\angle 1 \cong \angle 4$ and $\angle 2 \cong \angle 3$	Def of bisect		
$\overline{DB} \cong \overline{BD}$	$\angle A \cong \angle C$	$\overline{AB} \cong \overline{CD}$	$\triangle ABD \cong \triangle CDB$	$\triangle BDA \cong \triangle BDC$	
CPCTC	AAA	SSA			