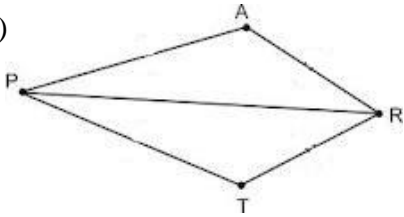


Name: _____
 Date: _____
 Class: _____

Geometry
 Unit 7
 HW 7-4

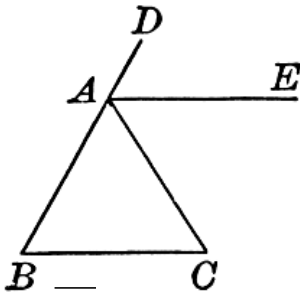
For each create a “proof” where you have 5 steps or answer the question in parenthesis.
 You should have the givens work together if at all possible.

1)



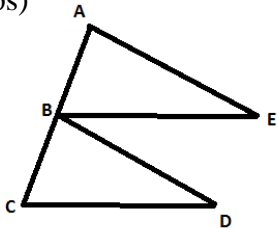
Given: \overline{PR} bisects $\angle APT$
 \overline{PR} bisects $\angle ART$

2)

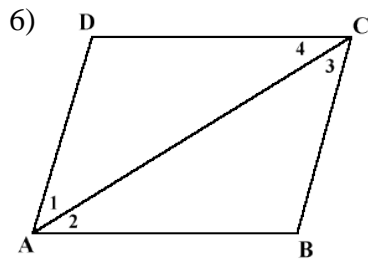
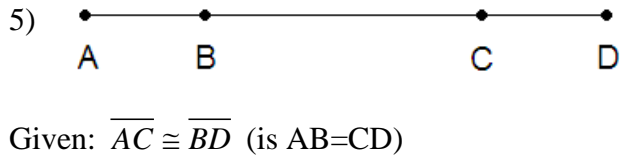
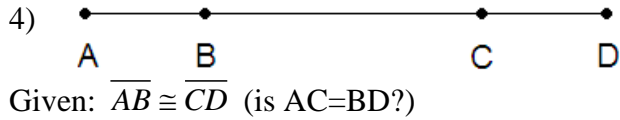


Given: \overline{AE} bisects $\angle DAC$
 $\overline{AE} \parallel \overline{BC}$

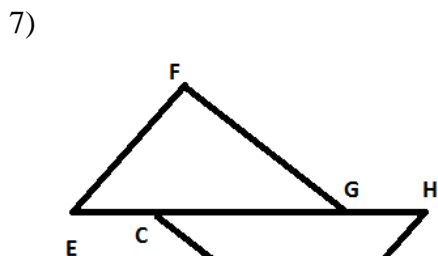
3) (7 steps)



Given: \overline{AC} has midpoint B
 $\overline{AE} \parallel \overline{BD}$
 $\overline{BE} \parallel \overline{CD}$



Given: $\triangle ADC$ is isosceles with D as vertex
 $\triangle ABC$ is isosceles with B as vertex
 $\overline{DC} \parallel \overline{AB}$
 (7 Step proof using angles)



Given: $\overline{EC} \cong \overline{HG}$
 $\overline{FG} \parallel \overline{CJ}$
 $\overline{EF} \parallel \overline{JH}$
 (7 steps total, no combinations)