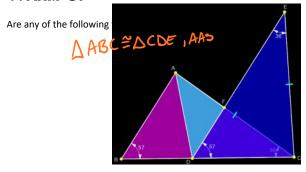
WARM UP

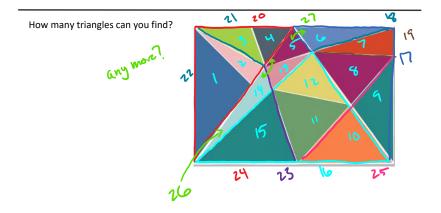


ESSENTIAL QUESTION

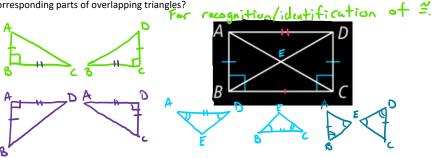
Which theorems can be used to prove that two overlapping triangles are congruent?

GOAL: "I CAN...

Use triangle congruence to solve problems with overlapping triangles."



corresponding parts of overlapping triangles?

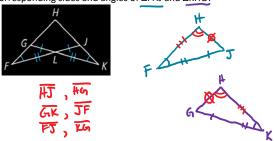


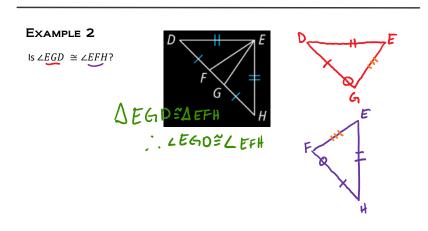
What are the corresponding sides and angles of Δ FHJ and Δ KHG?

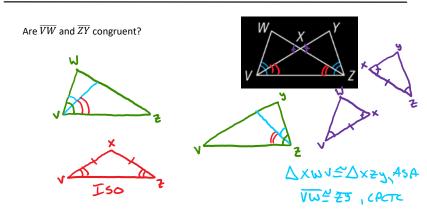


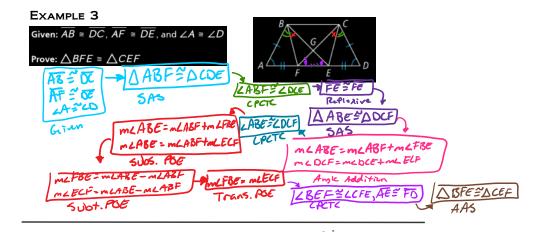


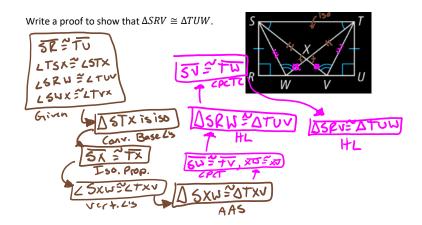
What are the corresponding sides and angles of Δ FHJ and Δ KHG?









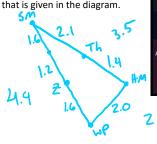


EXAMPLE 4

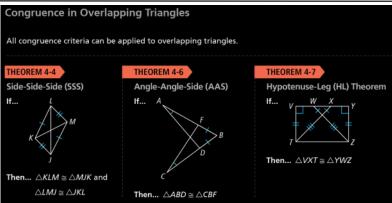
A city runs three triangular bus routes to various attractions. How can you draw a separate triangle for each route? Are any of the routes the same length?

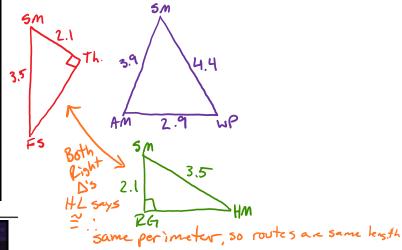


A new route will stop at the History Museum, Water Park, Zoo, Science Museum, and Theater. Draw a triangle to represent the new route. Include any length or angle information that is given in the diagram.









HOMEWORK

Pg. 192 12, 13, 16-21, 27, 28