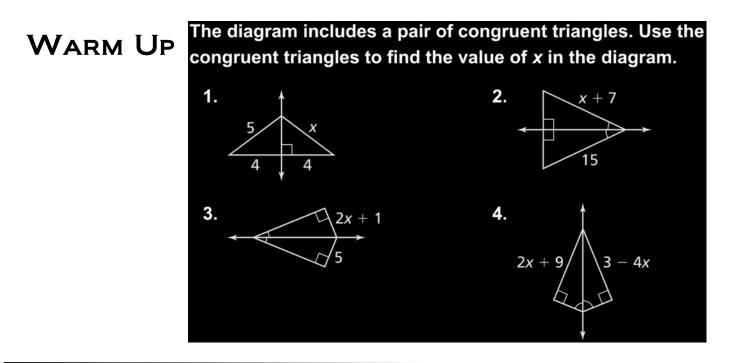
5.1 Perpendicular and Angle Bisectors

Monday, September 23, 2019 7:46 AM



ESSENTIAL QUESTION

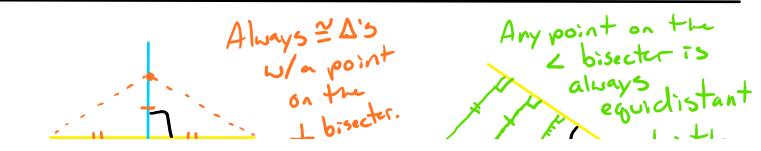
What is the relationship between a segment and the points on its perpendicular bisector? Between an angle and the points on its bisector?

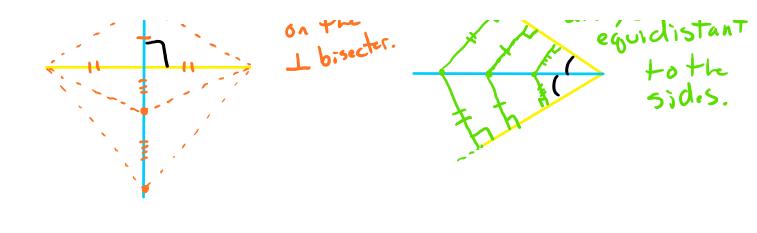
NEEDED VOCAB:

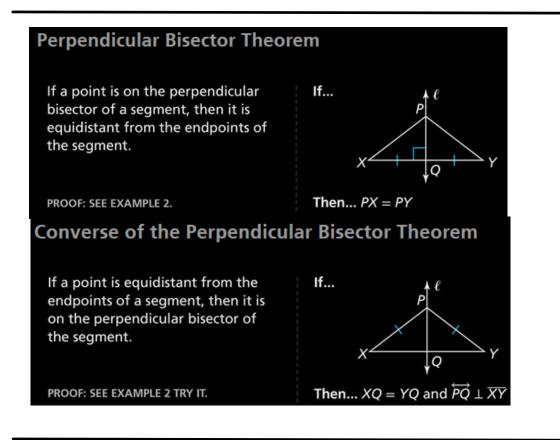
► Equidistant

GOAL: "I CAN...

Use perpendicular and angle bisectors to solve problems."





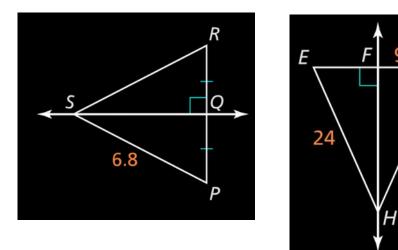


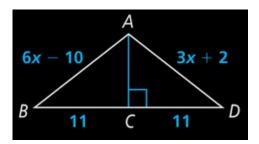
EXAMPLE 1

Find RS.

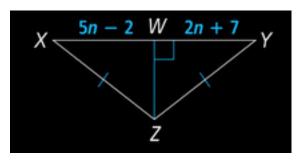
Find EG.

Find AD.





Find WY?

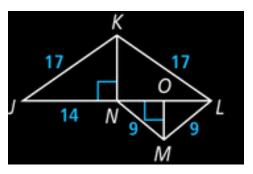




9.5

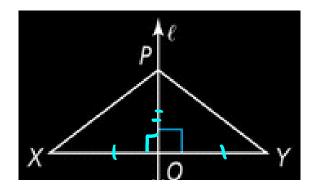
24

G

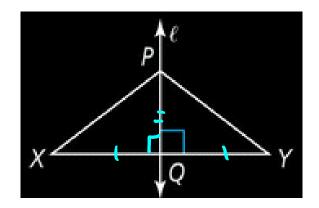


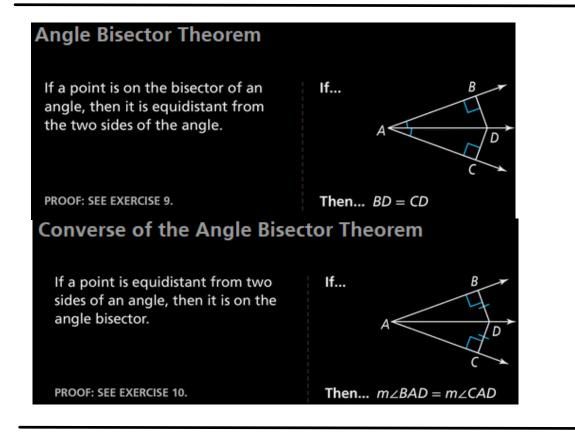
EXAMPLE 2

Given: *l* is perpendicular bisector of \overline{XY} **Prove:** PX=PY



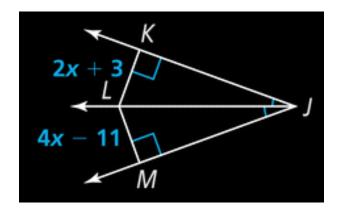
Given: *l* is perpendicular bisector of XY **Prove:** PX=PY





EXAMPLE 3

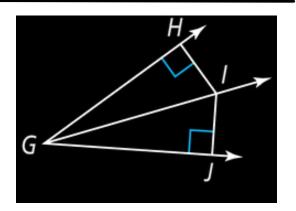
Find KL?

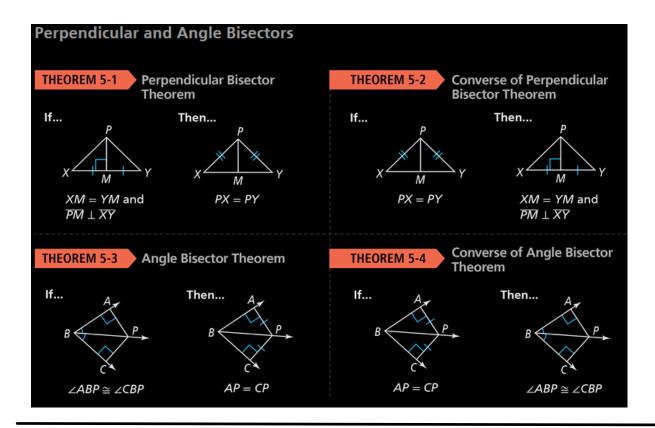


For the questions below use the same diagram but use the measures indicated.

If HI=7, IJ=7, and the measure of angle HGI=25°, what is the measure of angle IGJ?

If the measure of angle HGJ=57°, the measure of angle IGJ=28.5°, and HI=12.2, what is the value IJ?





Homework

Pg. 207 11, 14-21, 25, 26