

5.2

Perpendicular Bisectors of Triangles

Perpendicular Bisector Observations

If you were given a perpendicular bisector of a segment, what is the relationship of any point on the perpendicular bisector to the endpoints of that segment?



Perpendicular Bisector Observations

If you were given a point equidistant from the endpoints of a segment, what object must that point lie on?





Perpendicular Bisector Theorem

If a point lies on the perpendicular bisector of a segment, then it is _____ from the _____ of the segment.

Converse of the Perp. Bisector Theorem

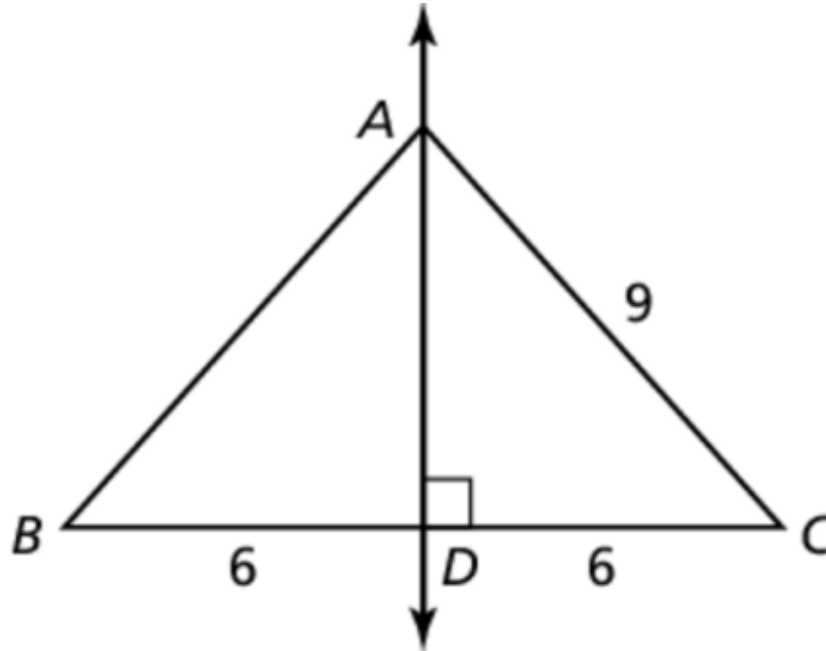
If a point is _____ from the endpoints of a segment, then it lies on the _____ of the segment.



Practice

Find the indicated measure. Explain your reasoning.

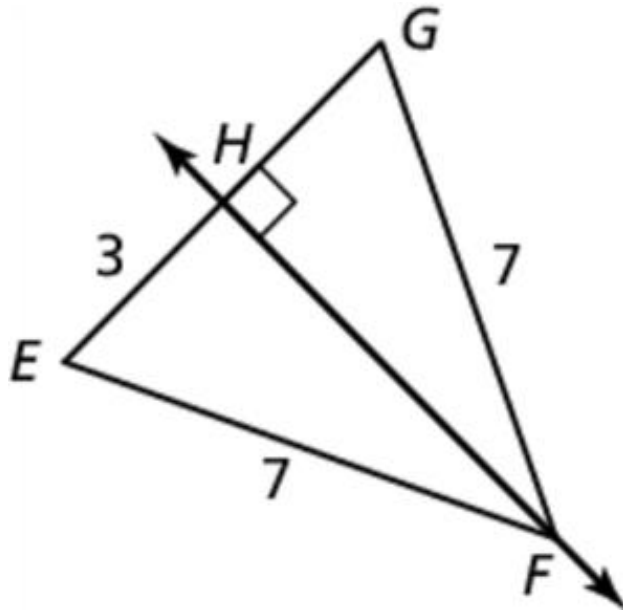
1) AB



Practice

Find the indicated measure. Explain your reasoning.

2) EG



Practice

Find the indicated measure. Explain your reasoning.

3) SU

