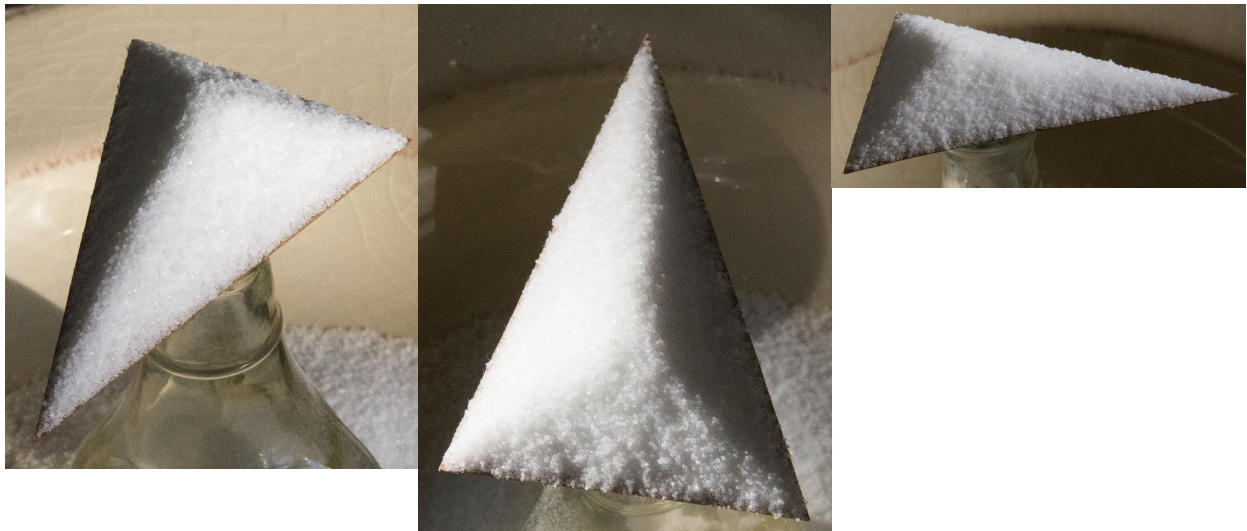


Unit 7 Lesson 6: A Special Point

1 Notice and Wonder: Salt Pile (Warm up)

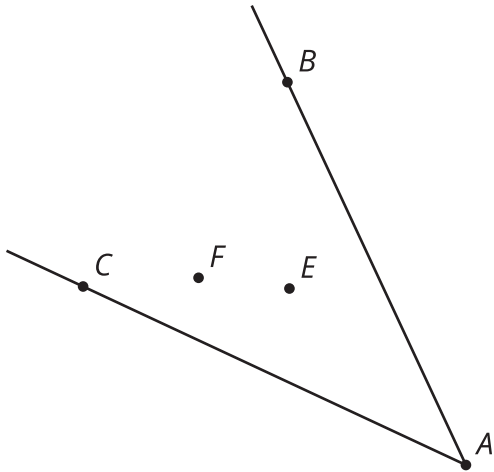
Student Task Statement

What do you notice? What do you wonder?



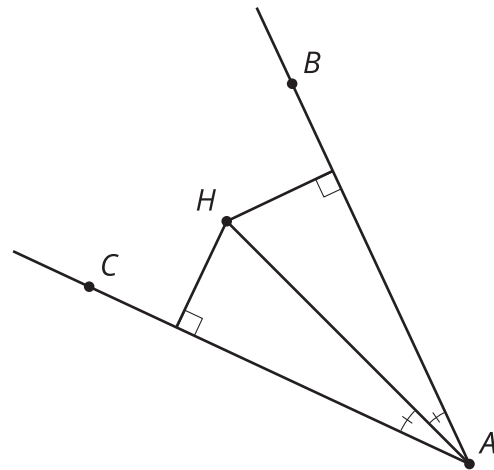
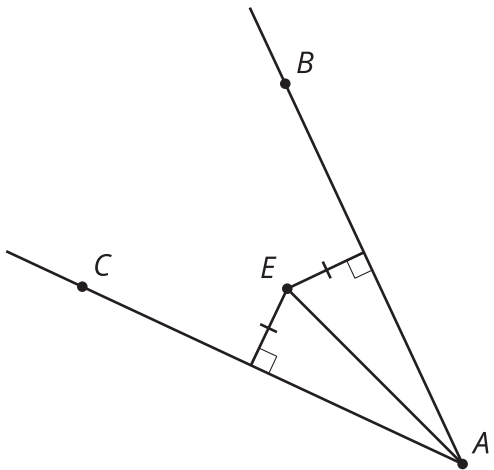
2 Point and Angle

Images for Launch



Student Task Statement

Here is an angle BAC with 2 different sets of markings.

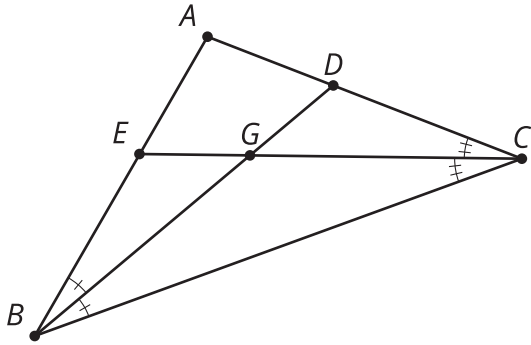


1. Point E is the same distance away from each of the 2 rays that form angle BAC . Make a conjecture about angles EAB and EAC and prove it.
2. Point H is on the angle bisector of angle BAC . What can you prove about the distances from H to each ray?

3 What If There Are Three Sides?

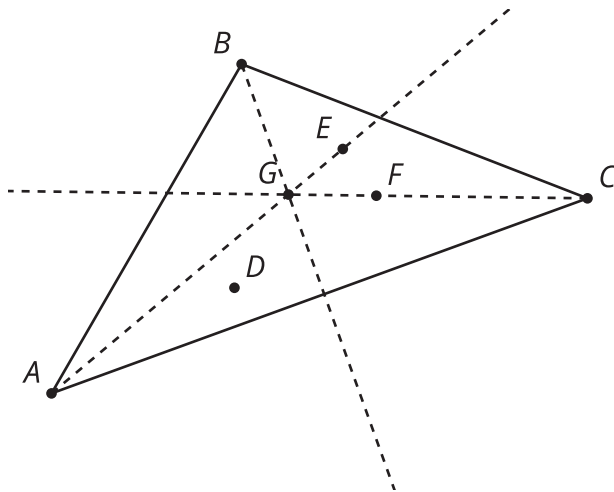
Student Task Statement

Two angle bisectors have been constructed in triangle ABC . They intersect at point G .



1. Sketch segments that show the distances from point G to each side of the triangle.
2. How do the distances from point G to sides AB and BC compare? Explain your reasoning.
3. How do the distances from point G to sides AC and BC compare? Explain your reasoning.
4. Will the third angle bisector pass through point G ? Explain your reasoning.

Activity Synthesis



Images for Activity Synthesis

