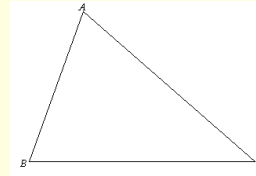


11/16 Aim: Points of concurrency
 Do now: Take out your construction supplies
 Homework: Practice finish worksheet

Quest Wednesday
 make sure to review your last test (hint!!!!!!!)

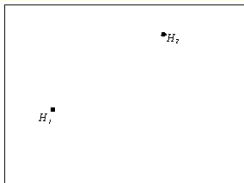
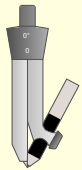
Nov 21-6:44 AM

2. Construct the perpendicular bisector of \overline{AB} , \overline{BC} , and \overline{CA} on the triangle below. What do you notice about the segments you have constructed?

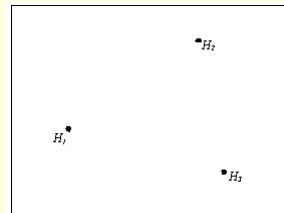


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3. Two homes are built on a plot of land. Both homeowners have dogs and are interested in putting up as much fencing as possible between their homes on the land but in a way that keeps the fence equidistant from each home. Use your construction tools to determine where the fence should go on the plot of land. How must the fencing be altered with the addition of a third home?



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Vocabulary
 concurrent - when two or more lines intersect at one point

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Point of concurrency

The point of intersection of 2 or more lines.

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Circumcenter of a triangle

The point of concurrency of 3 \perp bisectors of a \triangle .

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Incenter of a triangle

Where \angle bisectors intersect in a \triangle .

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Orthocenter

Point where altitudes intersect in a \triangle .

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Centroid

Point where medians intersect in a \triangle .

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median

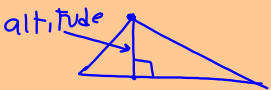
from vertex to midpt of opp. side.



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altitude

from vertex to opp. side forming a right \angle .

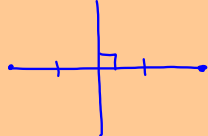


altitude

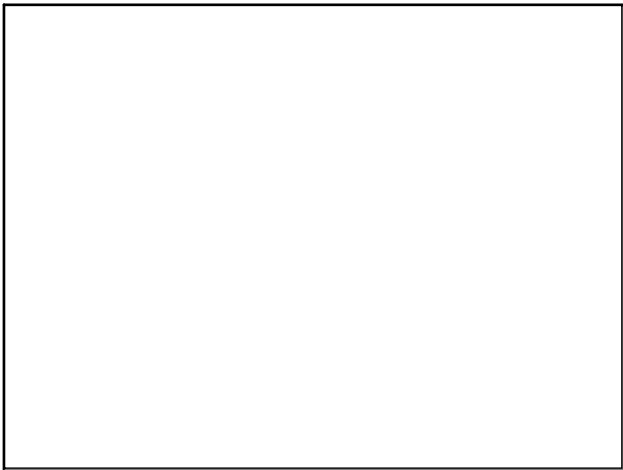
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perpendicular bisector

divides side into 2 \cong parts forming a right \angle .

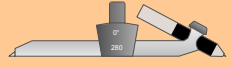
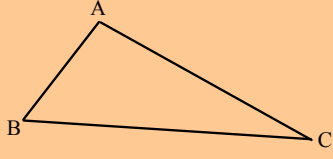


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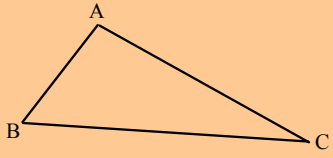
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Construct a median to each side of triangle ABC



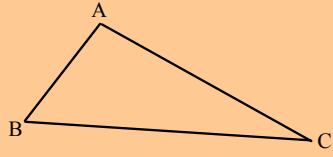
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Construct an altitude to each side of triangle ABC



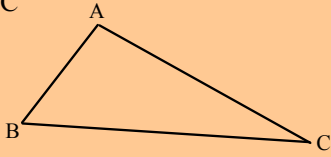
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Construct an angle bisector of each angle of triangle ABC



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Construct a perpendicular bisector to each side of triangle ABC



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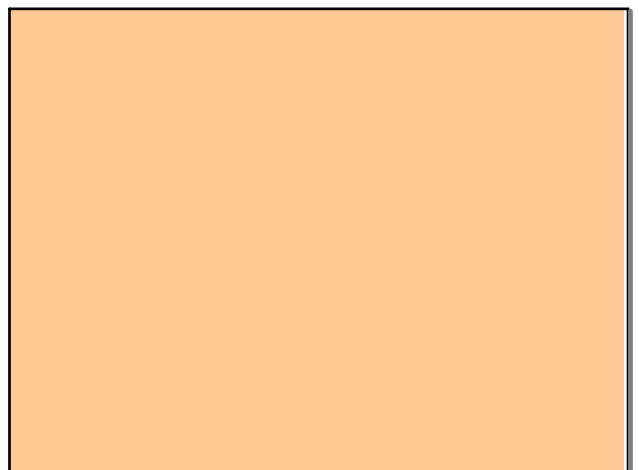
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