Happy Halloween

Please pull out a clean sheet of paper and entitle it "Hot Seat Math."

Hot Seat Math

Geometry
Chapter 5
Test Review

Question:

What is the point of concurrency of the angle bisectors of a triangle?

Question:

What point(s) of concurrency of a triangle must lie in the interior of the triangle?
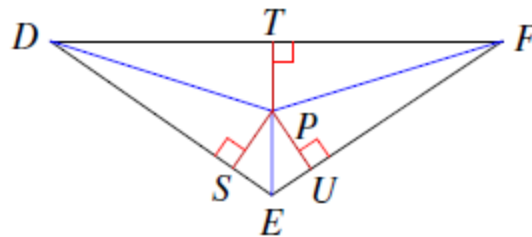
Question:

Is this triangle possible?
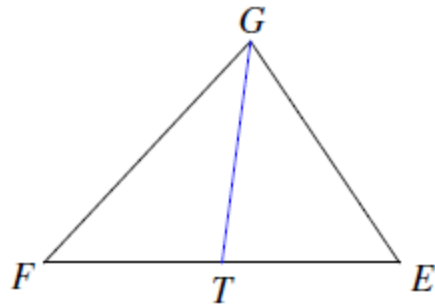
3, 8, 11

Question:

Point P is an incenter.

$PT = 3$. Find PU.

Question:

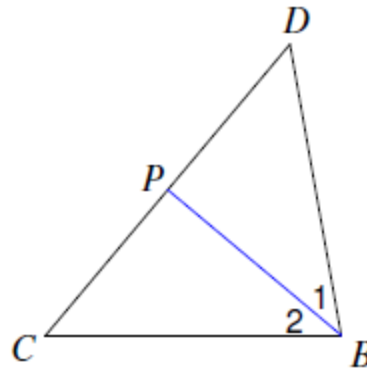$\overline{GT}$ is a median.

Find FE if $TE = 8$

Question:

What is the point of concurrency of the altitudes of a triangle?

Question:

$\overline{PB}$ is an angle bisector.

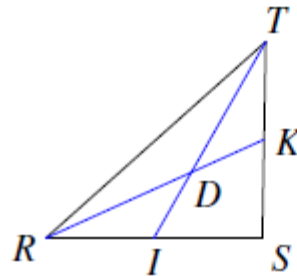Find $m\angle 2$ if $m\angle 2 = 7x + 5$ and $m\angle 1 = 9x - 5$.

Question:

Write the assumption you would make to start an indirect proof of the following statement.

Angle A has an odd measure.

Question:

$\overline{RK}$ *and* $\overline{TI}$ are medians.
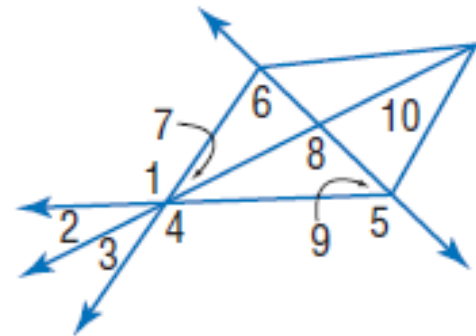
Find RK if $DK = 3.4$

Question:

Write the range of the third side:

16, 23

Question:

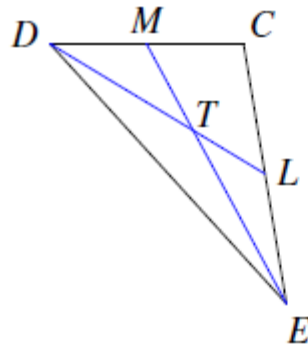Determine which angle has the greatest measure.

Angle 8, angle 5, angle 7

Question:

$\overline{ME}$ and $\overline{DL}$ are medians.

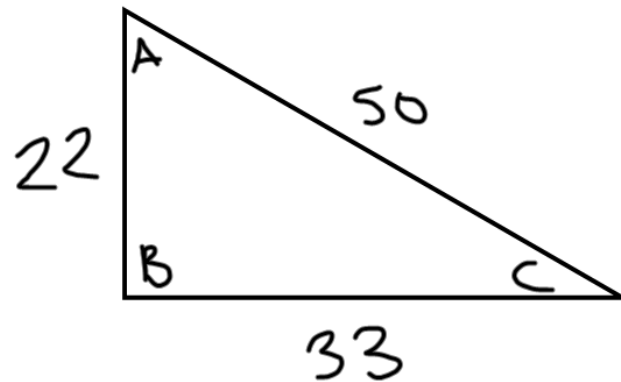Find x if $ET = 3x + 2$ and $EM = 5x$

Question:

What is the point of concurrency of the perpendicular bisectors of a triangle?

Question:

Write the angles in greatest to least measure

Question:

Write an indirect proof:

Theorem 5.10
Given: $m\angle A > m\angle ABC$
Prove: $BC > AC$