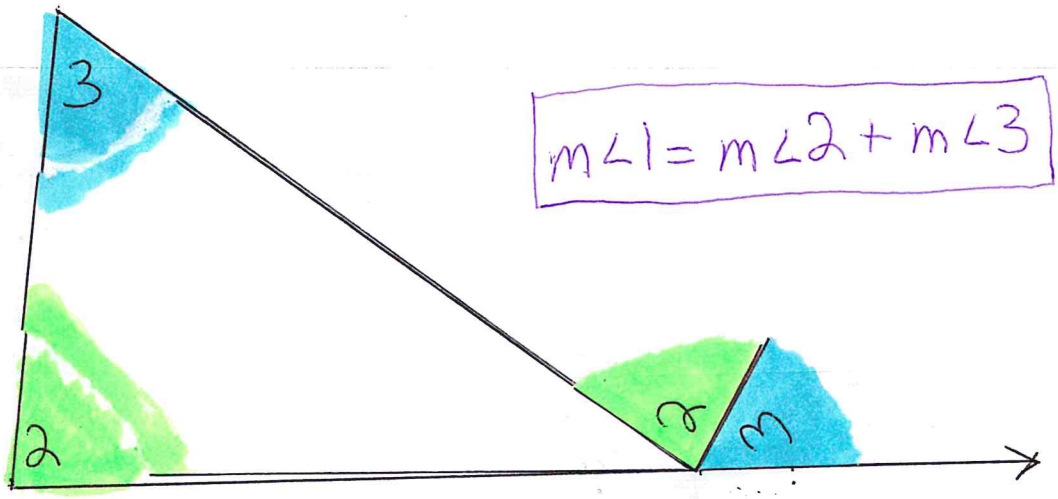
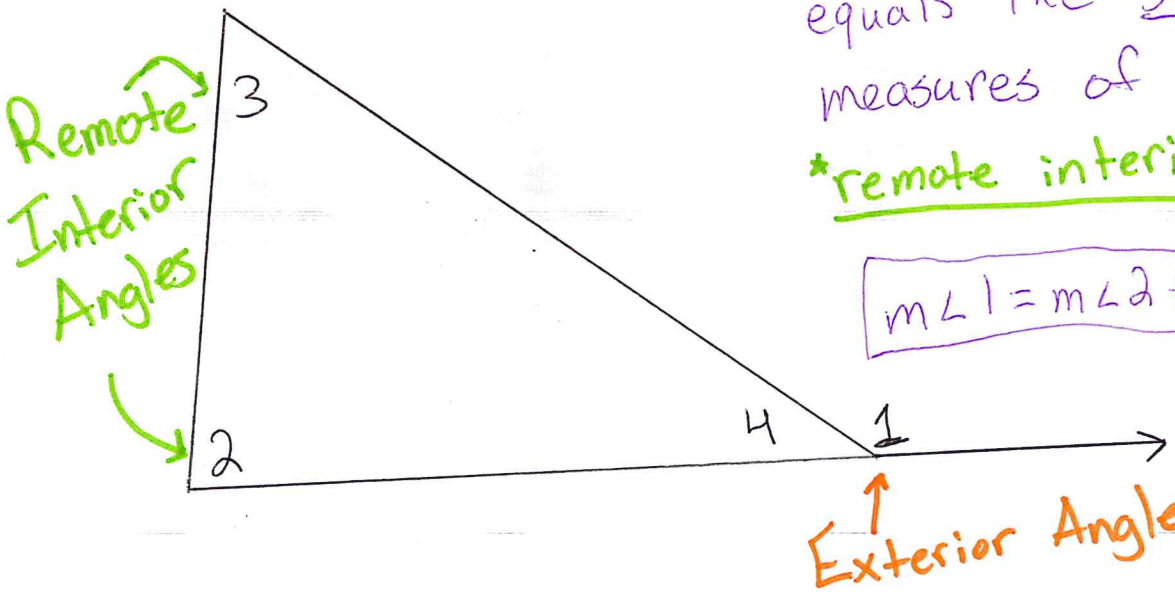
Triangle Exterior Angle Theorem



Theorem: The measure of each *exterior angle of a triangle equals the sum of the measures of its two *remote interior angles.

$m\angle 1 = m\angle 2 + m\angle 3$



*Exterior Angle: Adjacent to 1 interior angle on a straight line extended from the triangle.

*Remote Interior Angles: The 2 angles not "in-contact"/(touching) with the exterior angle.

Kuta Software - Infinite Geometry

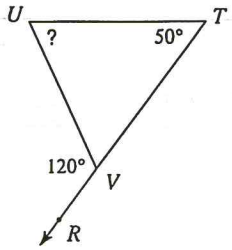
Name_____

The Exterior Angle Theorem

Date_____ Period____

Find the measure of each angle indicated.

1)



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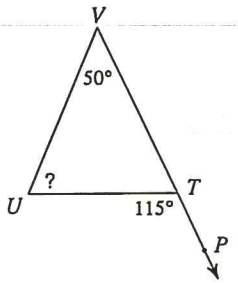

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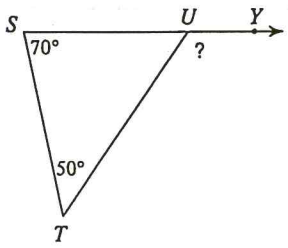

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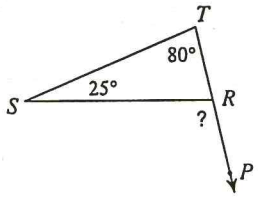

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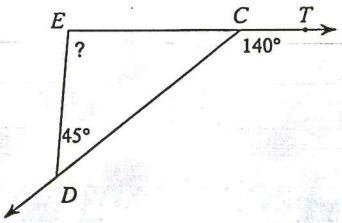

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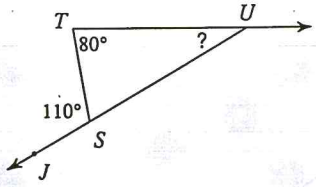

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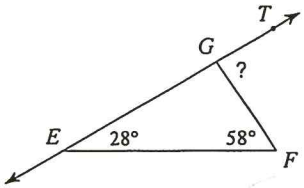

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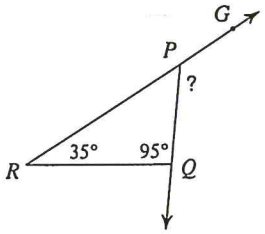

Solve for x.

9)