Objectives: To be able to use the properties of isosceles and equilateral riangles in order to find missing angle measures.

Recall: Isosceles Triangles

Triangle with 2 congruent sides

Parts of an Isosceles Triangle

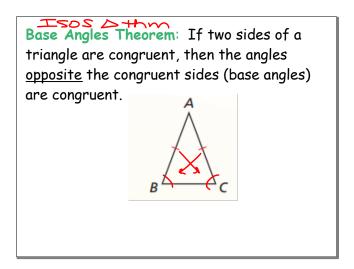
Vertex Angle

Legs

Base

Base Angles

Dec 22-2:22 PM

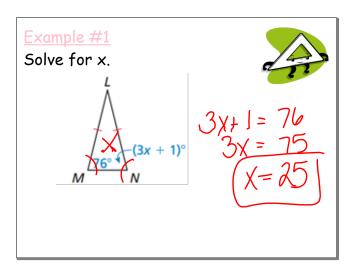


May 3-11:29 AM

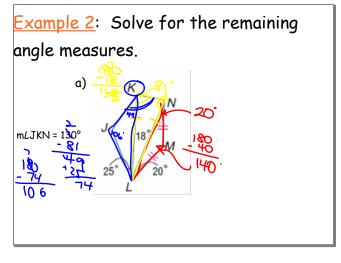
Converse of the Base Angles Theorem:

If two angles of a triangle are congruent, then the sides opposite the congruent angles are congruent.

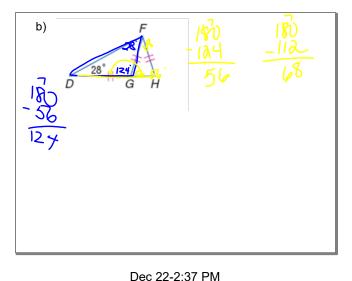
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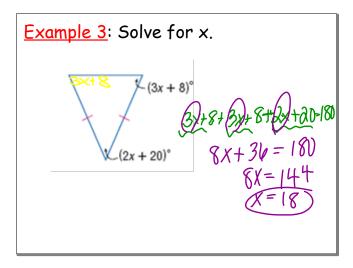


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Dec 22-2:38 PM

## Corollaries:

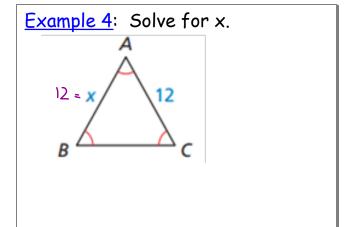
1. If a triangle is equilateral, then the triangle is equiangular.



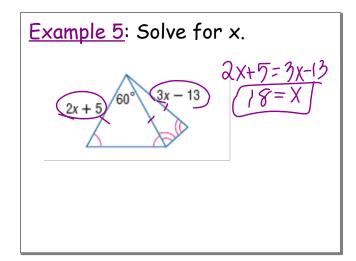


2. If a triangle is equiangular, then the triangle is equilateral.

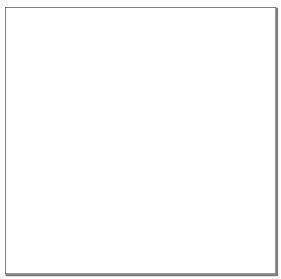
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Dec 22-2:43 PM



Dec 22-2:44 PM



Feb 3-12:32 PM