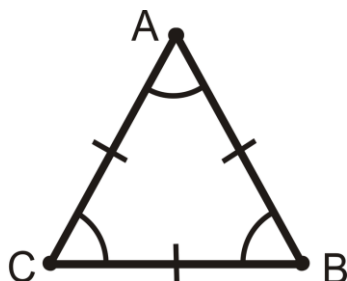


**Main Ideas/
Questions**

Equilateral Triangle
Characteristics

Notes

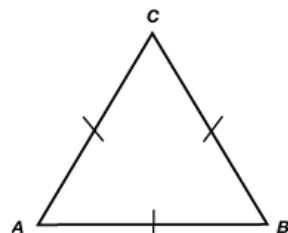
Equilateral Triangle – A triangle with 3 congruent _____ and _____



**EACH ANGLE
MEASURE IS:**

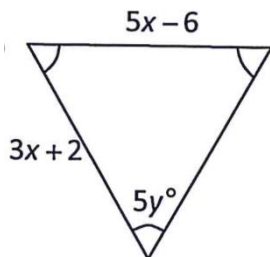
Examples

1. If $AB = 2x + 3$ and $AC = 3x - 7$, solve for x ?



2. If $\triangle ZYX$ is an equilateral triangle, $ZY = -x + 7$, and $YX = 3x - 9$, what is the length of XZ ?

3. Solve for x and y .



Isosceles Triangle
Characteristics

Isosceles Triangle – A triangle with 2 congruent _____ and _____

Legs – The congruent _____ of an isosceles triangle

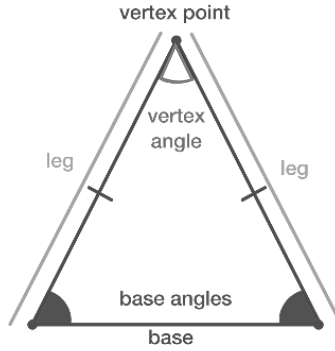
Base – The _____ side of an isosceles triangle

Base Angles – The congruent angles opposite of the _____

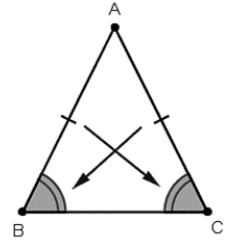
**Main Ideas/
Questions**

Isosceles Triangle
Characteristics
(Cont.)

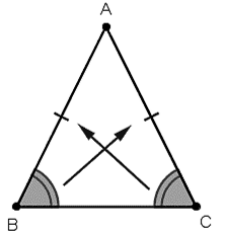
Notes



Isosceles Triangle Theorem – If two sides of a triangle are congruent, then _____



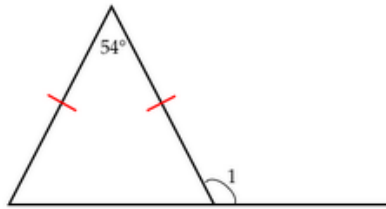
Converse of Isosceles Triangle Theorem – If two angles of a triangle are congruent, then _____



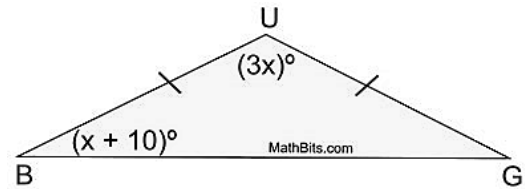
Examples

1. $\triangle ABC$ is an isosceles with legs AB and BC . If the $m\angle A = 63^\circ$, what is the $m\angle B$?

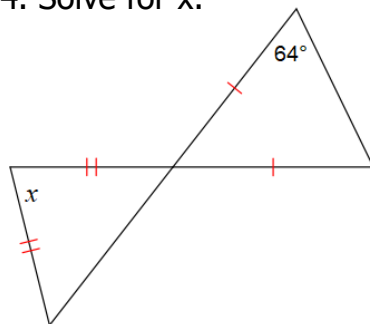
2. Solve for $m\angle 1$.



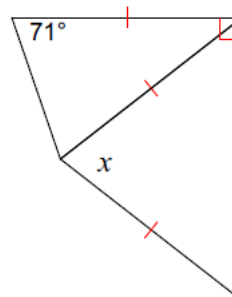
3. Solve for x .



4. Solve for x .



5. Solve for x .



6. Solve for x .

