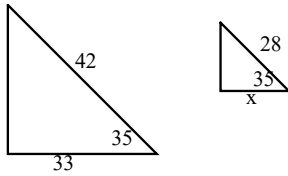


1. Find the value of x.



2. What are the two ways we discussed to show triangles are similar?

Mar 23-7:59 AM

$\overline{OR} \parallel \overline{AB}$

$\overline{BC} \parallel \overline{MR}$

$\overline{MO} = 15 \quad \overline{AC} = 30$

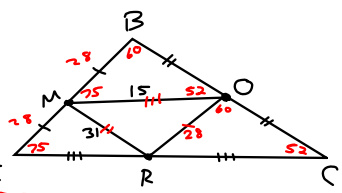
$\overline{BC} = 62 \quad \overline{MR} = 31$

$\angle BMO = 75 \quad \angle BAC = 75$

$\angle BCA = 52 \quad \angle BOM = 52$

$\overline{AC} \parallel \overline{MO}$

$\overline{BM} = 28 \quad \overline{AM} = 28$



$\overline{AB} = 50 \quad \overline{OR} = 25$   
 $\overline{BC} = 74 \quad \overline{BO} = 37$   
 $\angle COR = 60 \quad \angle CBA = 60$   
 $\overline{BO} = 19 \quad \overline{MR} = 19$

Mar 23-8:29 AM

$SQ = 3x - 8$

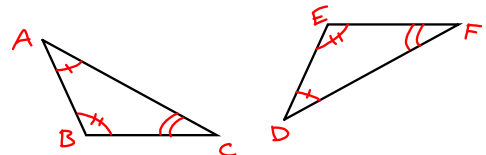
$ZY = x + 2$

$2(x + 2) = 3x - 8$

$2x + 4 = 3x - 8$   
 $-2x + 8 \quad -2x + 8$

$x = 12$

Mar 23-8:40 AM



$\triangle ABC \cong \triangle DEF$

$\angle A \cong \angle D \quad \overline{BC} \cong \overline{EF}$

$\angle C \cong \angle F \quad \overline{FD} \cong \overline{CA}$

Corresponding parts

Mar 23-9:08 AM

Congruency

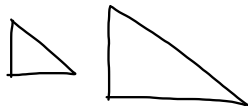
Showing Triangles are congruent

Similar -

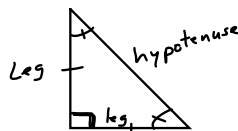
① proportion

$\frac{6}{12} = \frac{3}{6}$

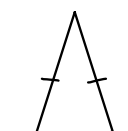
② AAA



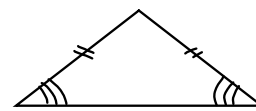
Mar 23-8:41 AM



Right Isosceles



Isosceles

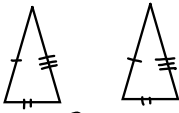


obtuse Isosceles

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Triangle Congruency

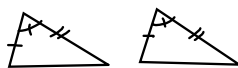
SSS - Side  
Side  
Side



If three sides of a triangle are congruent to three sides in another triangle, then the triangles are congruent

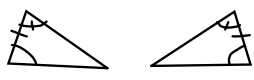
Mar 23-8:46 AM

SAS - Side  
Angle  
Side



Two sides and the angle in between them.


ASA - Angle  
Side  
Angle



Two angles and the side connecting them

Mar 23-8:48 AM

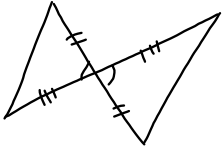
SAA - Side  
Angle  
Angle



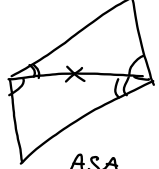
Similar  
AAA  
SSA

SSS  
SAS  
ASA  
SAA - AAS  
Congruent

Mar 23-8:52 AM

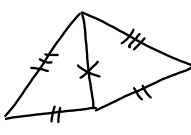


SAS



ASA

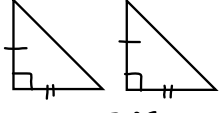
Mar 23-8:56 AM



SSS

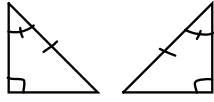
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LL - Leg  
Leg



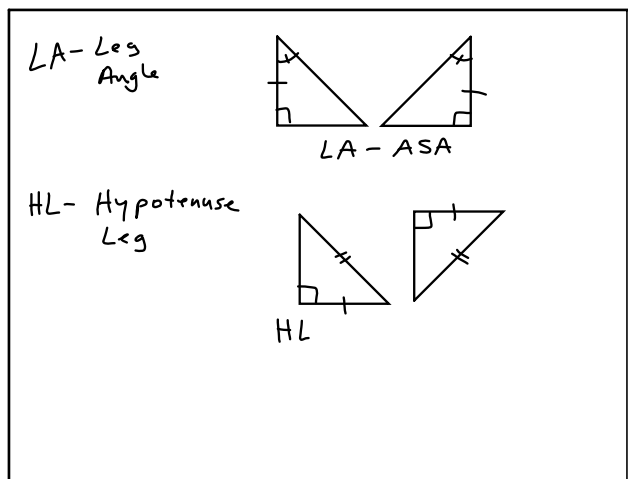
LL - SAS

HA - Hypotenuse  
Angle

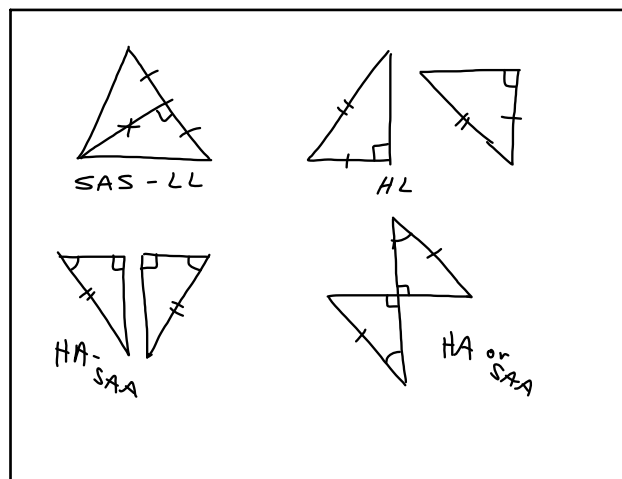


HA or SAA

Mar 23-8:58 AM



Mar 23-9:01 AM



Mar 23-9:04 AM