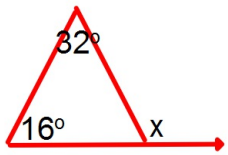
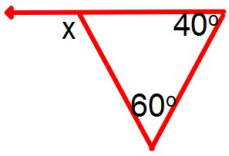
Spiral Review

Solve using the short cut.

1. 

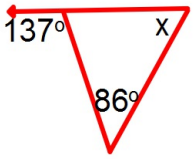
$X = 16 + 32$

$X = 48°$

2. 

$X = 60 + 40$

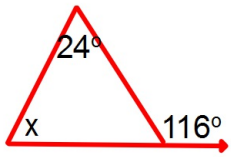
$X = 100°$

3. 

$137 = 86 + X$

$-86 \quad -86$

$51° = X$

4. 

$116 = 24 + X$

$-24 \quad -24$

$92° = X$

Review 4.1

Use the distance formula to classify the triangle by sides
A (3,3) B (5,2) C (7, 3)

AB =

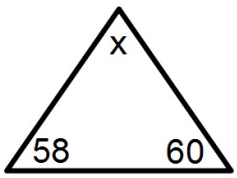
Conclusion: _____

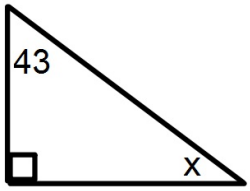
BC =

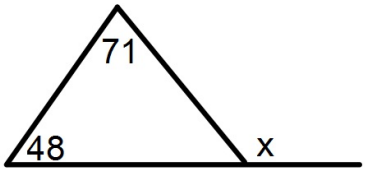
AC =

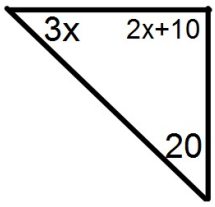
Review 4.2

Solve for x.

1. 

2. 

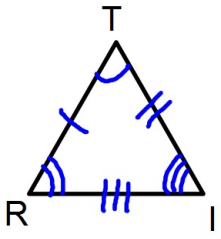
3. 

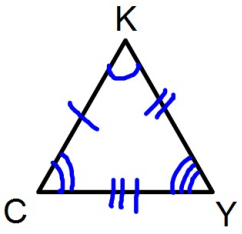
4. 

p.255 4.3 Congruent Triangles

*If two polygons are congruent, then their corresponding angles and sides are congruent.

What does that mean??





Sides

$\overline{RT} \cong \overline{CK}$

$\overline{IT} \cong \overline{YK}$

$\overline{RI} \cong \overline{CY}$

angles

$\angle T \cong \angle K$

$\angle R \cong \angle C$

$\angle I \cong \angle Y$

Example 1: Complete the congruence statement.

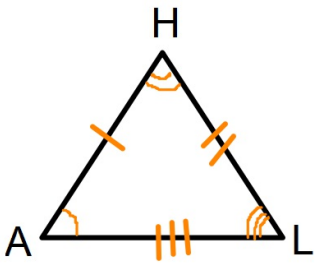
a.) $\Delta HAL \cong$ ΔOWE

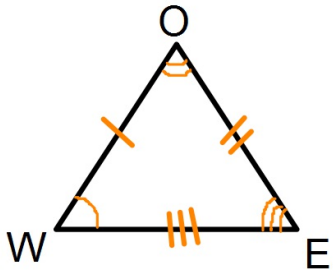
b.) $\angle L \cong$ $\angle E$

c.) $\overline{HA} \cong \overline{OW}$

d.) $\angle AHL \cong$ $\angle WOE$

e.) $\overline{EW} \cong$ $\overline{LA}$





Example 2:

Name all pairs of congruent corresponding parts for $\Delta PAC \cong \Delta MAN$.

angles

$\angle P \cong \angle M$

$\angle A \cong \angle A$

$\angle C \cong \angle N$

Sides

$\overline{PA} \cong \overline{MA}$

$\overline{AC} \cong \overline{AN}$

$\overline{PC} \cong \overline{MN}$

Example 3: Find each segment or angle.

a.)Name the side opposite <REB.

$\overline{RB}$

b.)Name the angle opposite $\overline{AE}$.

$\angle ERA$

c.)Name the included side for <B and <BRE.

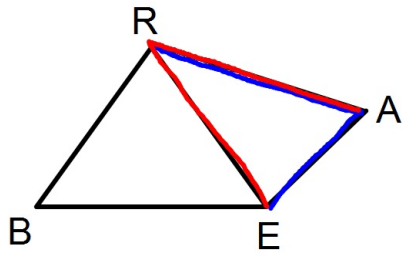
$\overline{BR}$

d.)Name the included angle for $\overline{RA}$ and $\overline{EA}$.

$\angle EAR$

e.)Name the included side for <EAR and <ERA.

$\overline{RA}$



"included" – overlaps

"opposite" – what is not used

Turn-in:

Make an origami bat

Homework:

worksheet 4.3