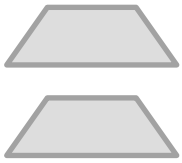
Geometry

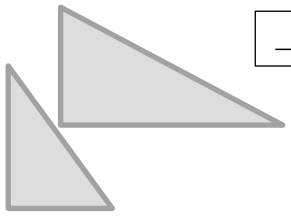
5.2 Apply Congruence and Triangles

Congruent (≅)

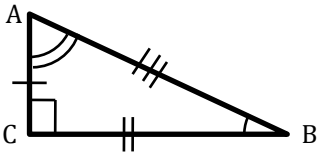
Exactly the same _____ and _____.

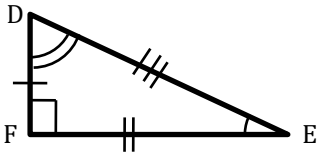


_____



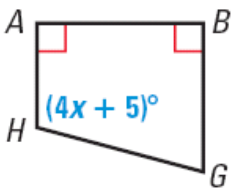
_____

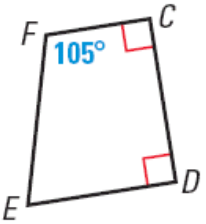




- $\Delta ABC \cong \Delta DEF$ $\Delta ABC \cong \Delta EDF$
- $\angle A \cong \angle D$ $\angle B \cong \angle E$ $\angle C \cong \angle F$
- $\overline{AB} \cong \overline{DE}$ $\overline{BC} \cong \overline{EF}$ $\overline{AC} \cong \overline{DF}$

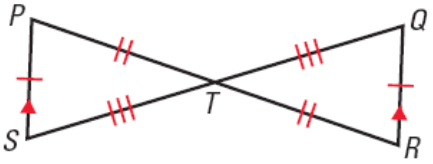
In the diagram, ABGH ≅ CDEF
Identify all the pairs of congruent corresponding parts





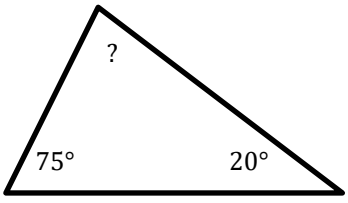
Find the value of x and find $m\angle H$.

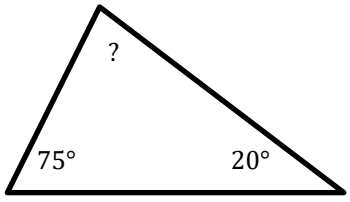
Show that $\Delta PTS \cong \Delta RTQ$



Third Angle Theorem

If _____ of one triangle are _____ to _____ of another triangle, then the _____ are _____.

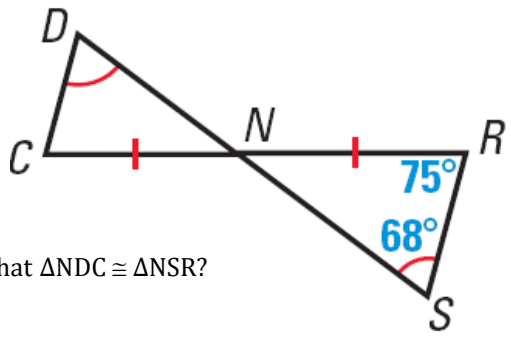




Properties of Congruence of Triangles

Congruence of triangles is _____, _____, and _____.

In the diagram, what is m∠DCN?



By the definition of congruence, what additional information is needed to know that ΔNDC ≅ ΔNSR?

Assignment: 235 #2, 3, 4, 6, 8, 10, 12, 13, 14, 15, 17, 18, 20, 21, 24, 26, 28, 30, 31, 32 = 20 total