

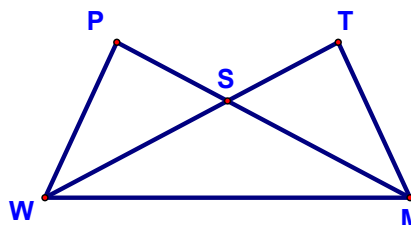


Overlapping Triangles - Lesson 3-5

There's not really much new to learn today...rather, we'll just apply what we've already learned to triangles that are overlapping and therefore sharing some part(s). An example is below as our warmup:

Given: $\overline{PW} \cong \overline{TM}$
 $\overline{PM} \cong \overline{TW}$

Prove: $\angle P \cong \angle T$



Statements

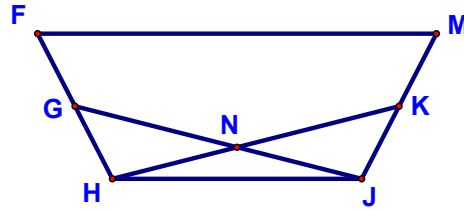
Reasons

Statements	Reasons

Here's another example proof...see how you do!

Given: $\overline{FH} \cong \overline{MJ}$
G is the midpt of \overline{FH}
K is the midpt of \overline{MJ}
 $\angle GHJ \cong \angle KJH$

Prove: $\overline{GJ} \cong \overline{HK}$

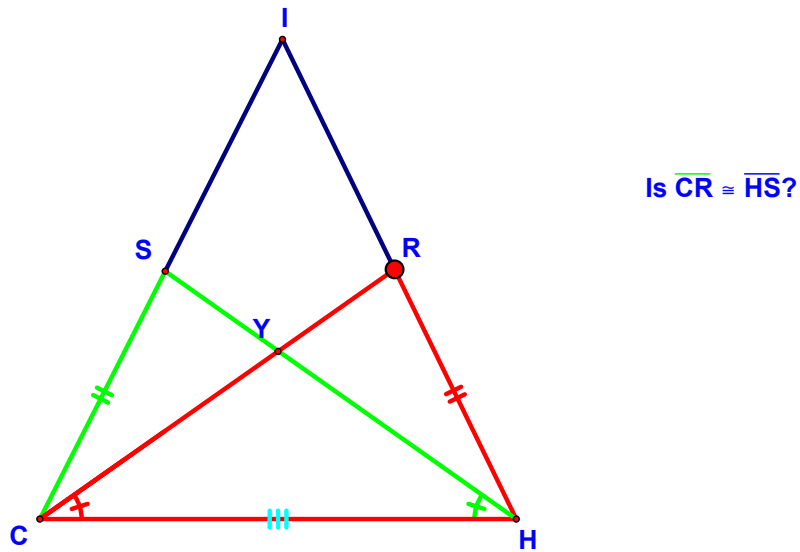


Statements

Reasons

Statements	Reasons

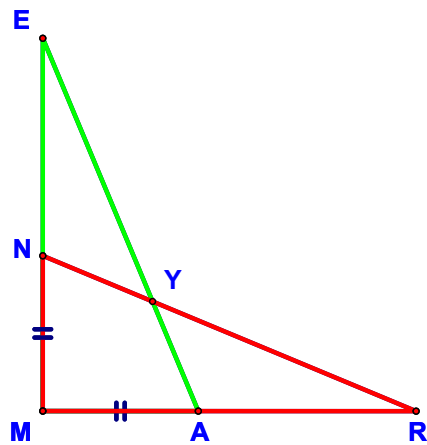
How about the following example...can it be proved?



OK...last example...can you show this to be true?

$$\overline{ME} \cong \overline{MR}$$

Is $\angle E \cong \angle R$?



Make sure to do all your classwork as these things really take a lot of practice to get used to "seeing" the correct triangles...