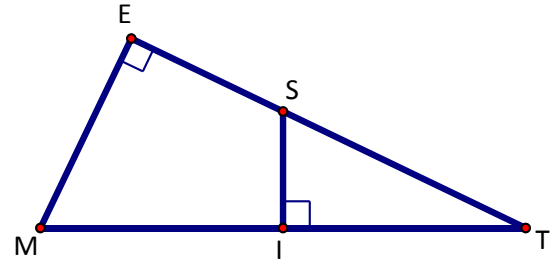


Problem Set 7-3R / 7-4L

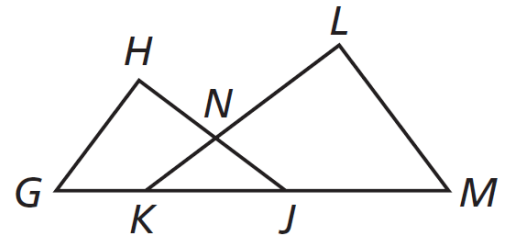
1. Given: $\overline{TE} \perp \overline{EM}, \overline{SI} \perp \overline{IT}$
 Prove: $\triangle TIS \sim \triangle TEM$



2. Given: $\triangle KNJ$ is isosceles with $\angle N$ as the vertex angle.
 $\angle H \cong \angle L$

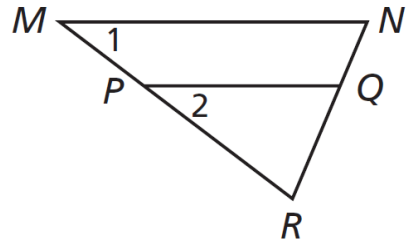
Prove: 1) $\triangle GHJ \sim \triangle MLK$

2) $\frac{GH}{ML} = \frac{HJ}{LK}$



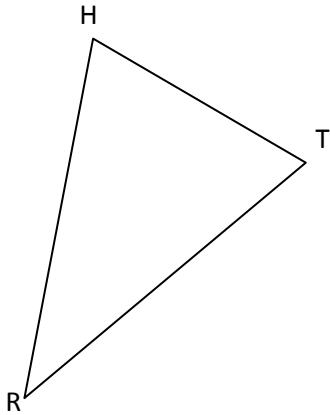
3. Given: $\frac{PR}{MR} = \frac{QR}{NR}$

Prove: 1) $\triangle PRQ \sim \triangle MRN$
2) $\overline{MN} \parallel \overline{PQ}$



PRACTICE:

- 1) Construct $\triangle LUV \sim \triangle HRT$ a similar triangle with a scale factor of $\frac{1}{2}$ using your choice of method.



- 2) Construct $\triangle LUV \sim \triangle HRT$ a similar triangle with a scale factor of $\frac{3}{2}$ using a different method from #1.

