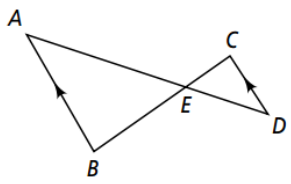
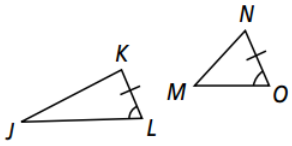
Name: _____ Period: _____

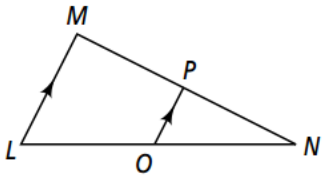
Checkpoint 6B *Integrated Math 2*

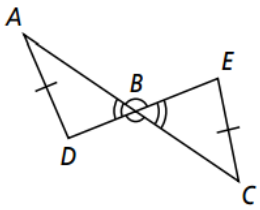
Answer the questions thoroughly including any necessary math or explanations.

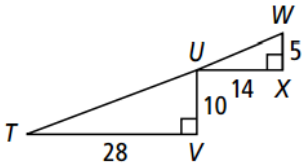
Determine whether the triangles are similar. If so, write a similarity statement and name the postulate or theorem you used. If they are not similar, explain why not.

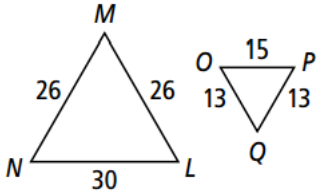
1) 

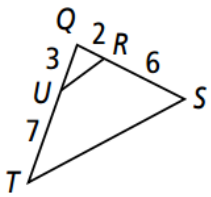
2) 

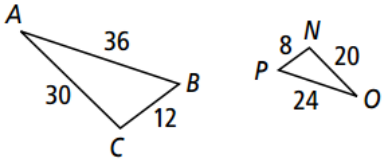
3) 

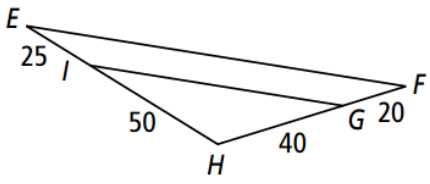
4) 

5) 

6) 

7) 

8) 

9) 

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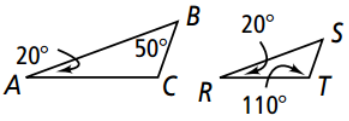

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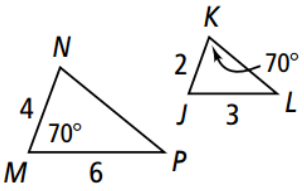

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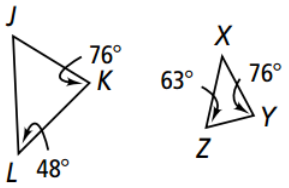
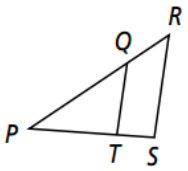


13)

Given: $PQ = \frac{3}{4}PR$, $PT = \frac{3}{4}PS$

Prove: $\triangle PQT \sim \triangle PRS$

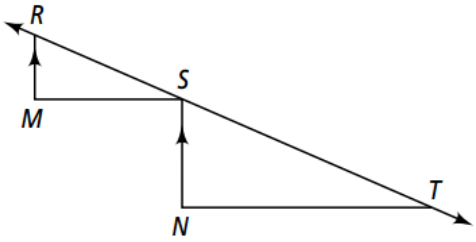


Statements	Reasons
1) $PQ = \frac{3}{4}PR$ and $PT = \frac{3}{4}PS$	1)
2) $\frac{PQ}{PR} = \frac{3}{4}$ and $\frac{PT}{PS} = \frac{3}{4}$	2)
3) $\frac{\square}{PR} = \frac{\square}{PS}$	3)
4) $\angle P \cong \square$	4)
5)	5)

14)

Given: $\overline{RM} \parallel \overline{SN}$, $\overline{RM} \perp \overline{MS}$, $\overline{SN} \perp \overline{NT}$

Prove: $\triangle RSM \sim \triangle STN$



Statements	Reasons