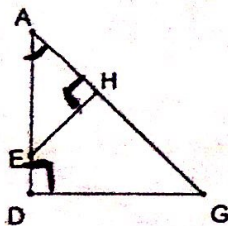
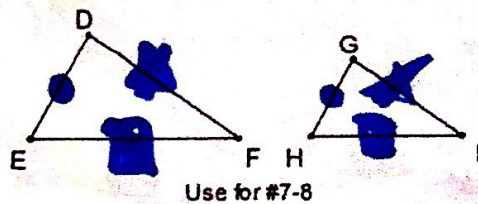


Complete the following proofs on a separate sheet.

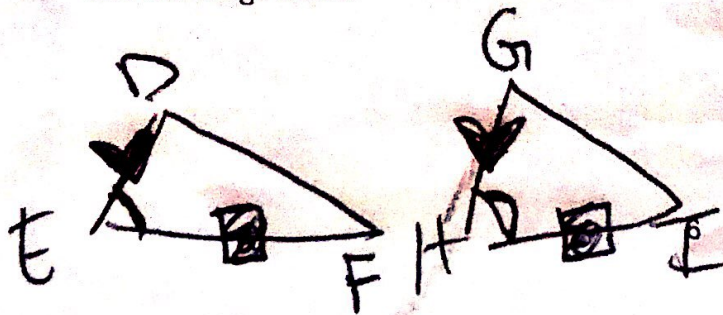
5. Given: $\angle D$ and $\angle AHE$ are right angles
 Prove: (1) The two triangles are similar.
 (2) $\angle G \cong \angle AEH$



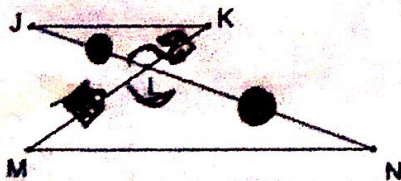
7. Given: $\frac{DE}{GH} = \frac{DF}{GI} = \frac{EF}{HI}$
 Prove: $\angle E \cong \angle H$



8. Given: $\frac{DE}{GH} = \frac{EF}{HI}$
 $\angle E \cong \angle H$
 Prove: $\frac{DF}{GI} = \frac{DE}{GH}$
 *Use the image above.



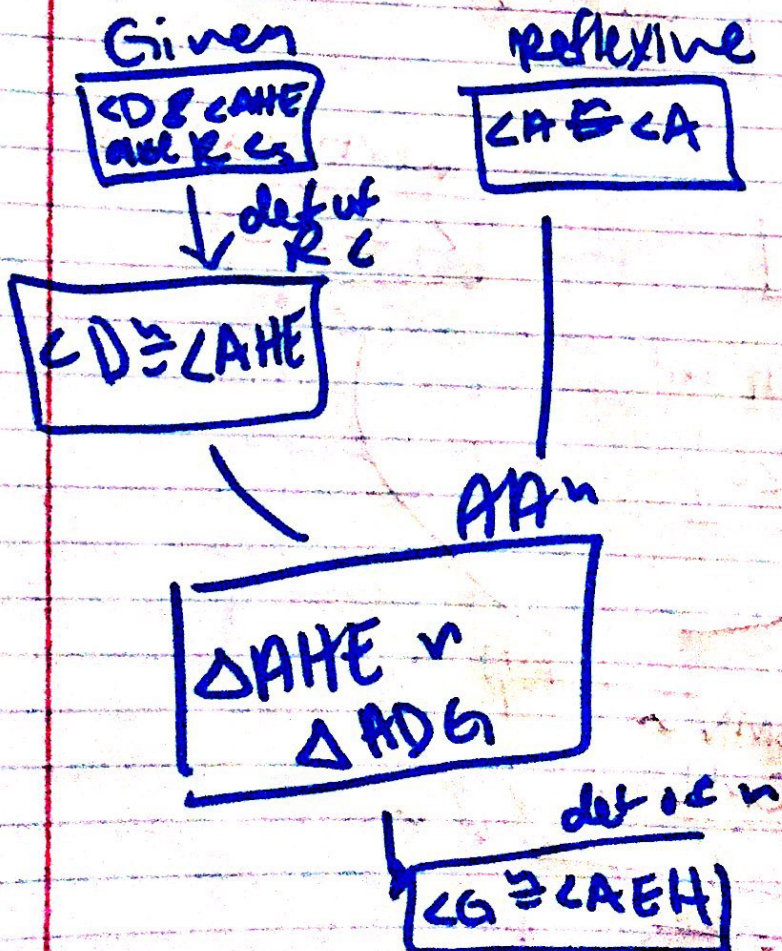
6. Given: $\frac{JL}{NL} = \frac{KL}{ML}$
 Prove: $\angle J \cong \angle N$



6
 $x-2)$
 $x=2$
 $2(2)+1$
 $=5$
 $y=5/2$

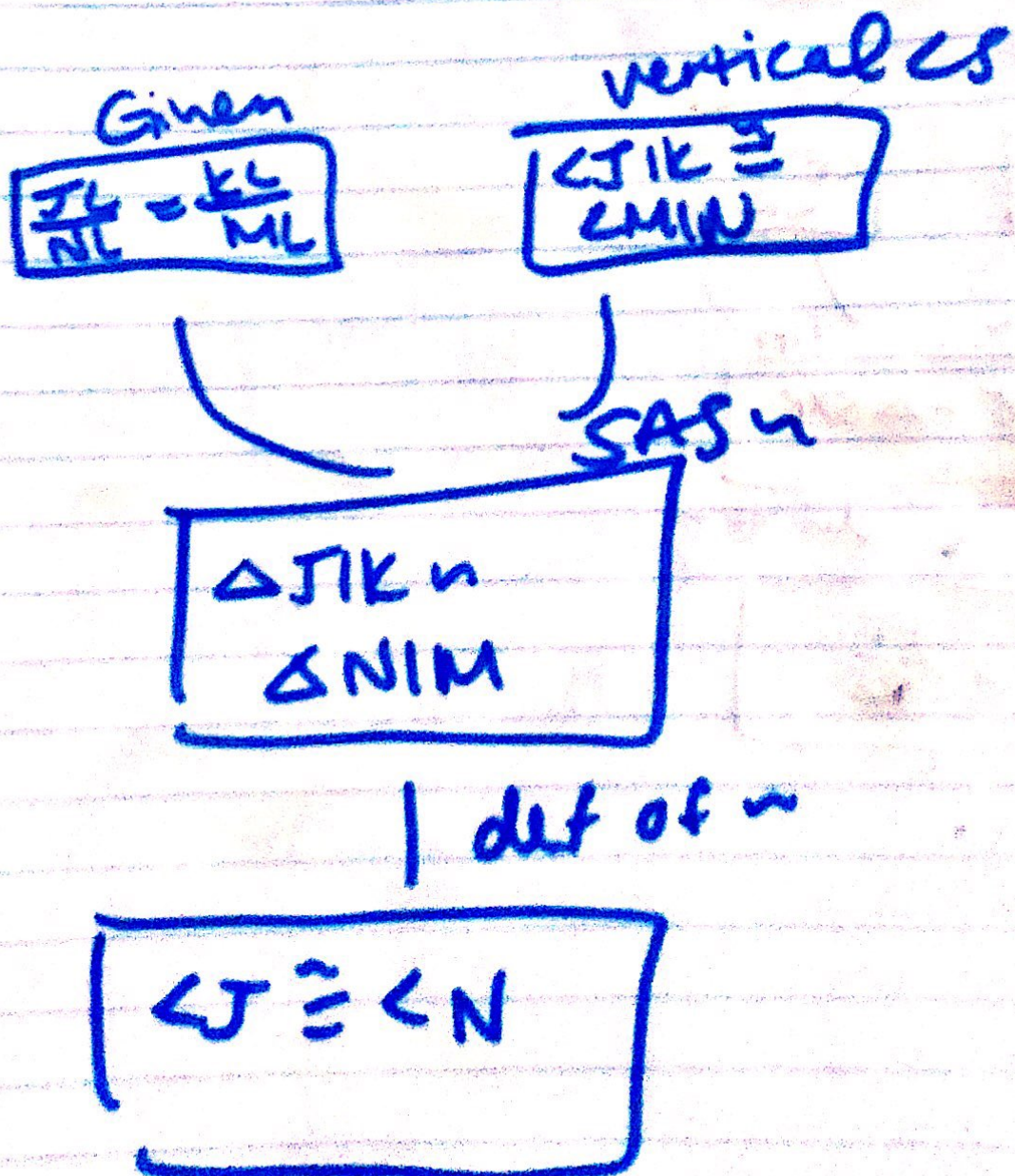
Day 5

Statement	Justifications
1. $\langle D \rangle \subseteq \langle AHE \rangle$ are right	Given
2. $\langle D \rangle \cong \langle AHE \rangle$	def of $\langle D \rangle \subseteq$
3. $\langle A \rangle \cong \langle CA \rangle$	Reflexive Prop
4. $\Delta AHE \cap$ ΔADG	$AA \cap$
5. $\langle G \rangle \cong \langle AEH \rangle$	def of \cap



b.

Statements	Justifications
1. $\frac{JL}{NL} = \frac{KL}{ML}$	Given
2. $\angle JIK \cong \angle MIN$	Vertical \angle s
3. $\triangle JIK \sim \triangle NIM$	SAS \sim
4. $\angle J \cong \angle N$	def of \sim



7. Statements | Justification

1. $\frac{DE}{GH} = \frac{DF}{GI} = \frac{EF}{HI}$

Given

$\triangle DFE \sim \triangle GIH$

SSS \sim

$\angle E \cong \angle H$

def of \sim

Given

$\frac{DE}{GH} = \frac{DF}{GI} = \frac{EF}{HI}$

SSS \sim

$\triangle DFE \sim \triangle GIH$

1 def of \sim

$\angle E \cong \angle H$

8.

Statements/Justifications

1. $\frac{DE}{GH} = \frac{EF}{HI}$

GIVEN

2. $\angle E \cong \angle H$

GIVEN

3. $\triangle DEF \cong \triangle GHE$

SAS \cong

4. $\frac{EF}{HI} = \frac{DE}{GI}$

def of \cong

Given

$$\frac{DE}{GH} = \frac{EF}{HI}$$

Given

$$\angle E \cong \angle H$$



$$\triangle DEF \cong \triangle GHE$$

SAS \cong

$$\frac{EF}{HI} = \frac{DE}{GI}$$

def of \cong