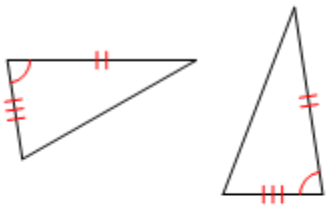
**4.2 SSS and SAS** **NAME:_____**

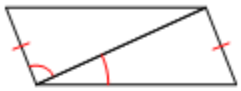
# CORRECTIVE ASSIGNMENT

**DATE:_____**

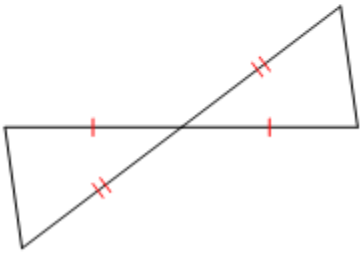
1)



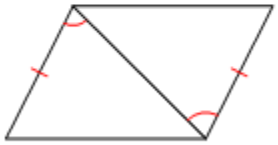
2)



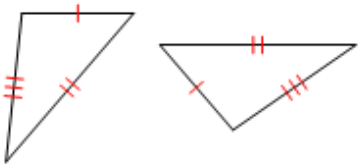
3)



4)



5)



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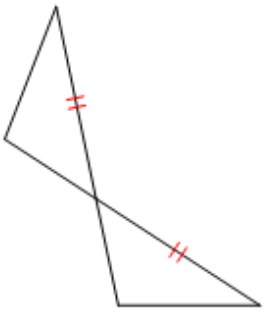
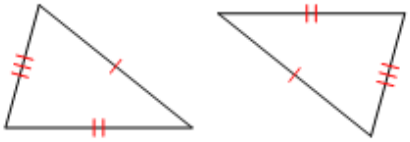
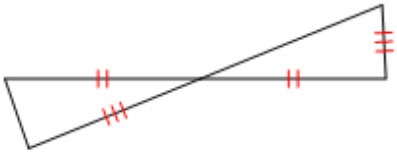


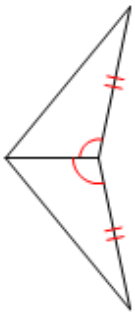
7)



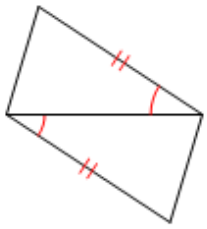
8)



9)



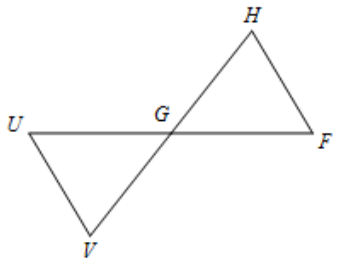
10)



**11. Mark the picture, state why the two triangles are congruent, then prove it!**

**Given:** $\overline{UF}$ **and** $\overline{VH}$ **bisect each other**

**Prove:** $\Delta UVG \cong \Delta FHG$

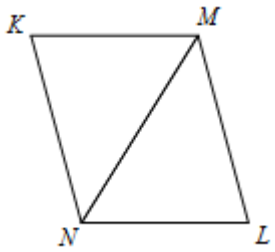



| STATEMENTS | REASONS |
|---|---|
| | |

**12. Mark the picture, state why the two triangles are congruent, then prove it!**

**Given:** $\overline{KM} \parallel \overline{NL}$
$\overline{KM} \cong \overline{NL}$

**Prove:** $\Delta NML \cong \Delta MNK$




| STATEMENTS | REASONS |
|---|---|
| | |

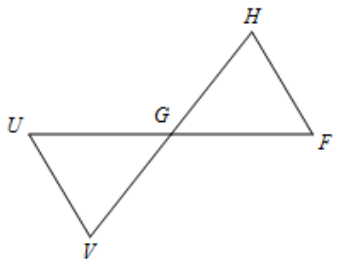
## ANSWERS FOR 4.2 CORRECTIVE ASSIGNMENT

1) SAS
2) Not congruent
3) SAS
4) SAS
5) SSS
6) Not congruent
7) SSS
8) Not congruent
9) SAS
10) SAS

**11.**

**Given:** $\overline{UF}$ **and** $\overline{VH}$ **bisect each other**

**Prove:** $\Delta UVG \cong \Delta FHG$

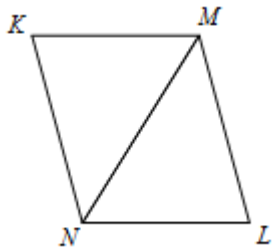



| STATEMENTS | REASONS |
|---|---|
| 1. $\overline{UG}$ and $\overline{VH}$ bisect each other | 1. given |
| 2. $\overline{UG} \cong \overline{GF}$ | 2. definition of bisect |
| 3. $\overline{VG} \cong \overline{GH}$ | 3. definition of bisect |
| 4. $\angle UGV \cong \angle HGF$ | 4. vertical angles are congruent |
| 5. $\Delta UVG \cong \Delta FHG$ | 5. SAS |

**12. Mark the picture, state why the two triangles are congruent, then prove it!**

**Given:** $\overline{KM} \parallel \overline{NL}$
$\overline{KM} \cong \overline{NL}$

**Prove:** $\Delta NML \cong \Delta MNK$




| STATEMENTS | REASONS |
|---|---|
| 1. $\overline{KM} \parallel \overline{NL}$<br>$\overline{KM} \cong \overline{NL}$ | 1. Given |
| 2. $\angle KMN \cong \angle LNM$ | 2. Alternate Interior Angles are congruent |
| 3. $\overline{NM} \cong \overline{NM}$ | 3. Reflexive Property |
| 4. $\Delta NML \cong \Delta MNK$ | 4. SAS |