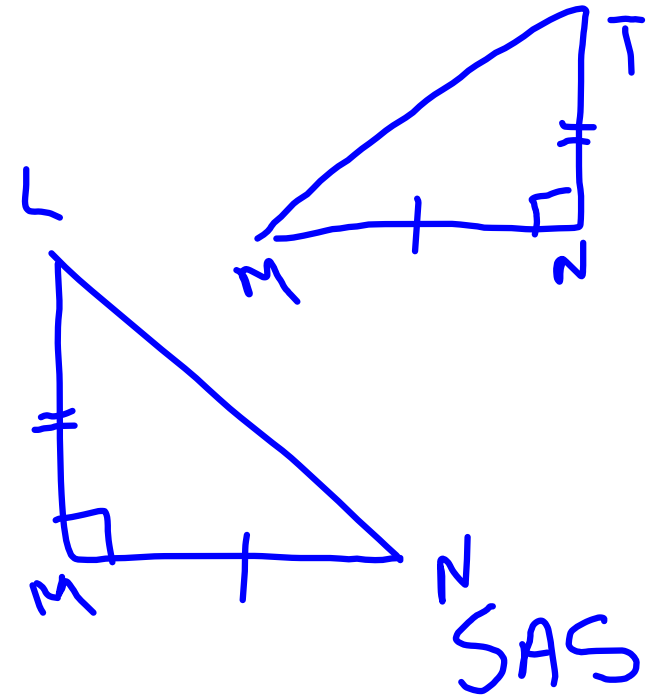
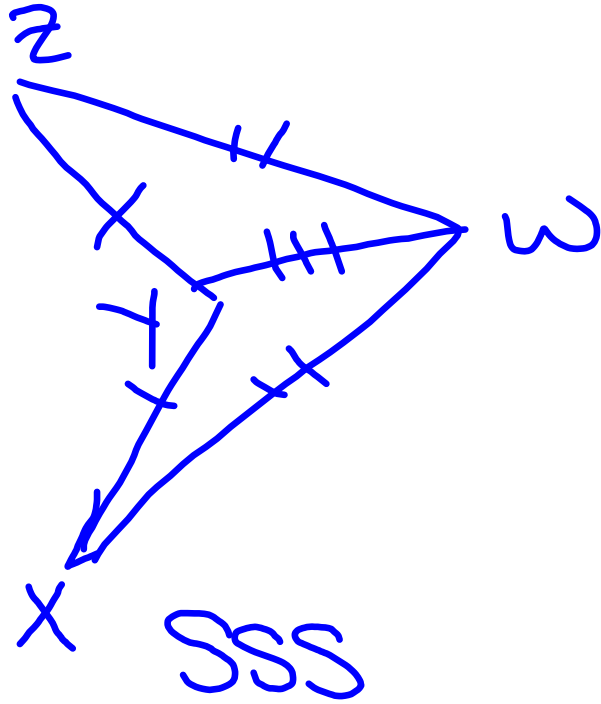


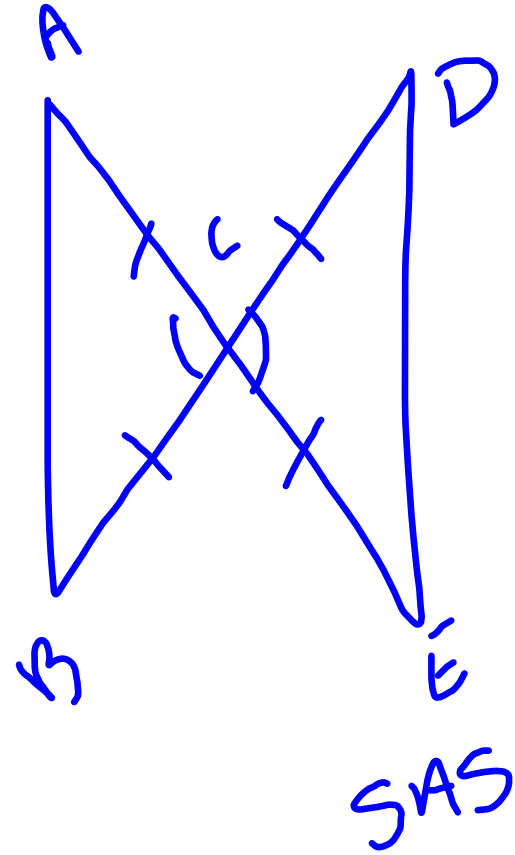
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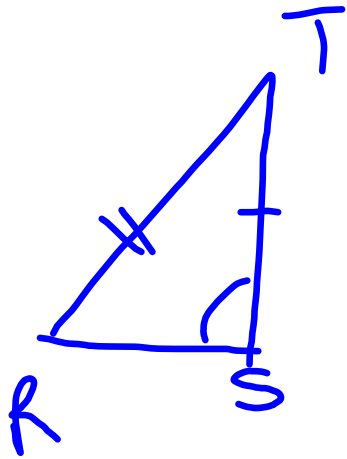
14



15

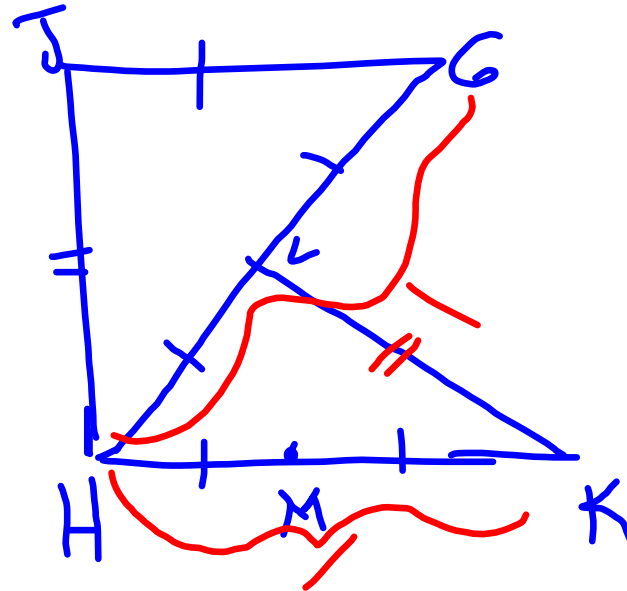
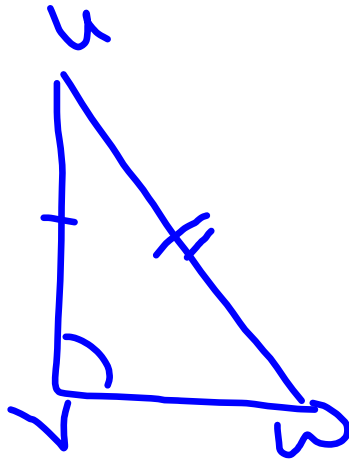


16



NO

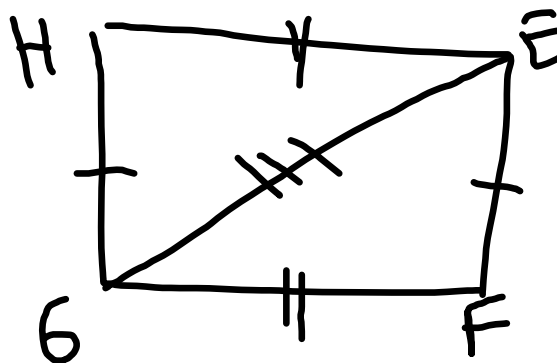
17



$$KH \cong HG$$

SSS

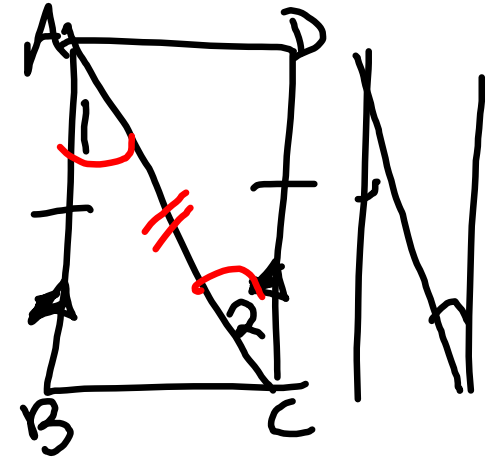
20



- 1.  $\overline{EF} \cong \overline{GH}$
- 2.  $\overline{FG} \cong \overline{HE}$
- 3.  $\overline{GE} \cong \overline{GE}$
- ∴  $\triangle EFG \cong \triangle GHE$

- 1. Given
- 2. Given
- 3. Reflex  $\cong$
- ∴ SSS

22



1.  $\overline{AB} \cong \overline{CD}$

1. Given

2.  $\overline{AB} \parallel \overline{CD}$

2. Given

3.  $\angle 1 \cong \angle 2$

3. alt int  $\angle$ 's  $\cong$

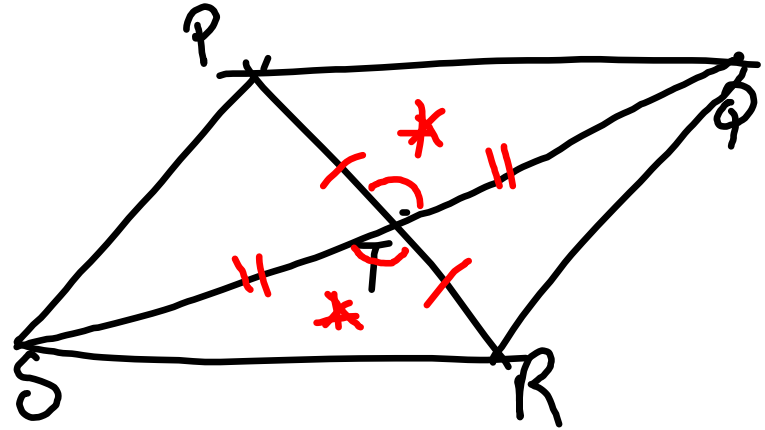
4.  $\overline{AC} \cong \overline{AC}$

4 Reflex  $\cong$

5.  $\triangle ABC \cong \triangle CDA$

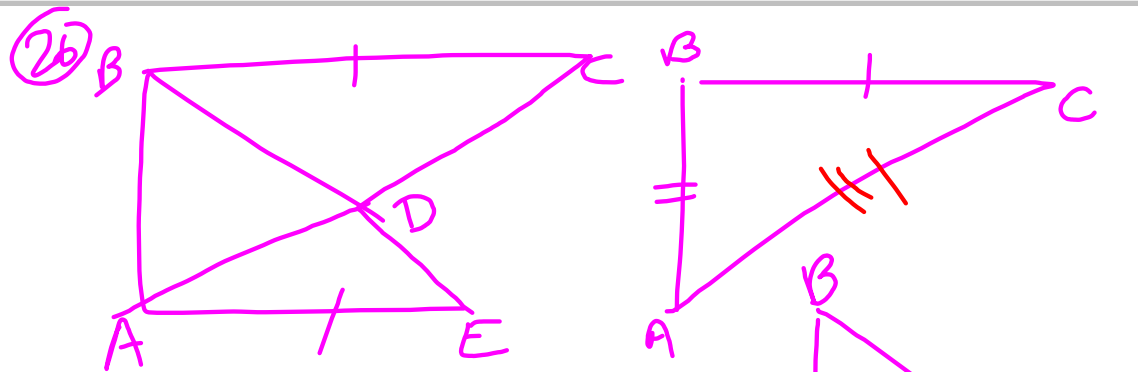
5 SAS

24



1.  $\overline{ST} \cong \overline{QT}$
2.  $\overline{PT} \cong \overline{RT}$
3.  $\angle PTQ \cong \angle RTS$
4.  $\triangle PQT \cong \triangle RST$

1. Given
2. Given
3. vert  $\angle$ 's  $\cong$
4. SAS



1.  $\overline{BC} \cong \overline{AE}$
2.  $\overline{AB} \cong \overline{AB}$
3.  $\overline{BD} \cong \overline{AD}$   
 $\overline{DE} \cong \overline{DC}$
4.  $BD = AD$   
 $DE = DC$

5.  $BD + DE = BE$   
 $AD + DC = AC$
6.  $AD + DC = BE$
7.  $AC = BE$
8.  $\overline{AC} \cong \overline{BE}$
9.  $\triangle ABC \cong \triangle BAE$

1. Given
2. Reflex  $\cong$
3. Given

4. Def  $\cong$  seg

5. Seg Add Post.

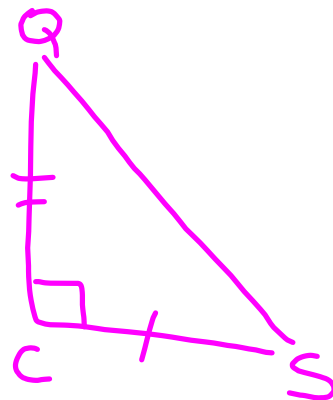
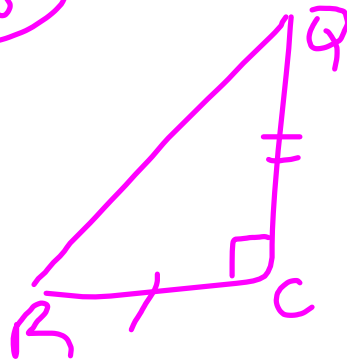
6. Sub

7. Sub.

8. Def  $\cong$  seg

9. SSS

28



- S
- $\overline{CR} \cong \overline{CS}$  1. Given
  - $\overline{QC} \perp \overline{RC}$  2. Given  
 $\overline{QC} \perp \overline{CS}$
  - $\angle QCR \cong \angle QCS$  3. Perf  $\perp$  lines  
vert.  $\angle$ 's
- A
- $\angle QCR \cong \angle QCS$  4. all rt  $\angle$ 's  $\cong$
- S
- $\overline{QC} \cong \overline{QC}$  5. Reflex  $\cong$
  - $\triangle QCR \cong \triangle QCS$  6. SAS

34

$$AC = 2$$

$$BC = 3$$

$$AB = \sqrt{(0 - (-3))^2 + (1 - 3)^2}$$
$$\sqrt{9 + 4} = \sqrt{13}$$

$$DF = 2$$

$$EF = 3$$

$$DE = \sqrt{(0 - 2)^2 + (6 - 3)^2}$$
$$= \sqrt{4 + 9}$$
$$= \sqrt{13}$$

40

