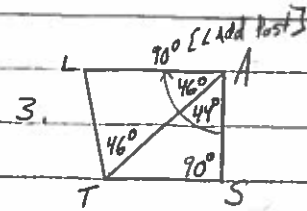
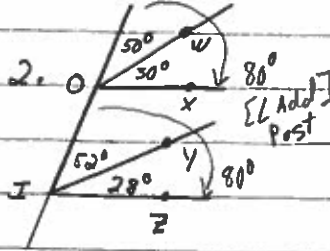
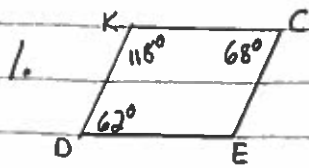


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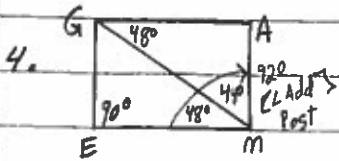
Key



1. ① \overline{KD} is not $\parallel \overline{CE}$
 [S.S. Int. \angle s not supp.]
 ② $\overline{KC} \parallel \overline{DE}$
 [S.S. Int. \angle s Conv.]

- ① \overline{OW} is not $\parallel \overline{YE}$
 [Corr. \angle s not \cong]
 ② $\overline{OX} \parallel \overline{IZ}$
 [Corr. \angle s Conv.]

- ① \overline{LT} is not $\parallel \overline{AS}$
 [Alt. Int. \angle s not \cong]
 ② $\overline{LA} \parallel \overline{TS}$
 [S.S. Int. \angle s Conv.]



5. $m\angle 1 = m\angle 8$ [$\overline{PL} \parallel \overline{AR}$, Alt. Int. \angle s Conv.]

6. $\angle 2 \cong \angle 7$ [$\overline{PA} \parallel \overline{LR}$, Alt. Int. \angle s Conv.]

7. $\angle 5 \cong \angle 3$ [No enough Info]

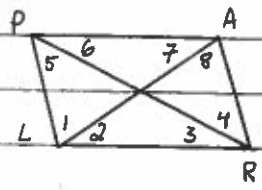
8. $m\angle 5 = m\angle 4$ [$\overline{PL} \parallel \overline{AR}$, Alt. Int. \angle s Conv.]

9. $m\angle 5 + m\angle 6 = m\angle 3 + m\angle 4$ [Not enough Info]

10. $m\angle APL + m\angle PAR = 180^\circ$ [$\overline{PL} \parallel \overline{AR}$, S.S. Int. \angle s Conv.]

11. $m\angle 1 + m\angle 2 + m\angle 5 + m\angle 6 = 180^\circ$ [$\overline{PA} \parallel \overline{LR}$, S.S. Int. \angle s Conv.]

4. ① \overline{GE} is not $\parallel \overline{AM}$
 [S.S. Int. \angle s not supp.]
 ② $\overline{GA} \parallel \overline{EM}$
 [Alt. Int. \angle s Conv.]



19. a. Two lines perpendicular to a 3rd line must be parallel.

False! CE: $\overline{AB} \perp \overline{EB}$ and $\overline{ED} \perp \overline{EB}$ (Hyp True)
 but \overline{AB} and \overline{ED} are skew! (concl. False)

b. In a plane two lines perpendicular to a 3rd line must be parallel.

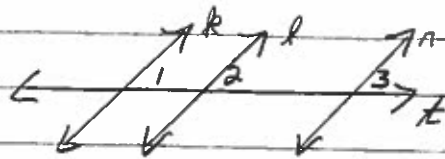
True! We proved this theorem in class.

c. In a plane 2 lines \parallel to a 3rd line must be \parallel . True! We proved

d. Any two lines parallel to a 3rd line must be \parallel . this theorem in class.

20. Given: $k \parallel l, k \parallel n$

Prove: $l \parallel n$



- | Statements | Reasons |
|--|-----------------------------|
| ① $k \parallel l, k \parallel n$ | ① Given |
| ② $\angle 1 \cong \angle 2, \angle 1 \cong \angle 3$ | ② Corr. \angle s Post |
| ③ $\angle 2 \cong \angle 3$ | ③ Trans. Prop. of \cong |
| ④ $l \parallel n$ | ④ Corr. \angle s Converse |