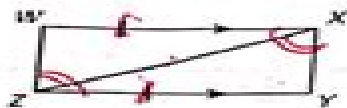


- 4) Given: $\overline{WX} \parallel \overline{YZ}$, $\overline{WZ} \parallel \overline{XY}$
Prove: $\triangle WXZ \cong \triangle YZX$



Thoughts:

- 1) $WX \parallel YZ$
- 2) $\angle WXZ \cong \angle YZX$
- 3) $\triangle WXZ \cong \triangle YZX$

Statements

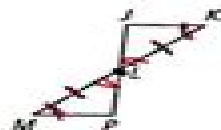
Reasons

1) given

2) Alt Interior $\angle$ s

3) SAA

- 5) Given: $\angle K \cong \angle M$, L is midpoint of $\overline{KM}$
Prove: $\triangle JKL \cong \triangle JML$



Thoughts:

- 1) $\angle K \cong \angle M$
- 2) $KL \cong ML$
- 3) $\angle JKL \cong \angle JML$
- 4) $\triangle JKL \cong \triangle JML$

Statements

Reasons

1) given

2) Def of midpoint

3) vertical Angles

4) ASA

- 6) Given: $\angle B$ and $\angle D$ are right angles.
 $\overline{AE}$ bisects $\overline{BD}$
Prove: $\triangle ABC \cong \triangle EDC$



Thoughts:

- 1) $\angle B \cong \angle D$ and $\overline{AE}$ bisects $\overline{BD}$
- 2) $\angle B \cong \angle D$
- 3) $BE \cong DE$
- 4) $\angle ECD \cong \angle ACB$
- 5) $\triangle ABC \cong \triangle EDC$

Statements

Reasons

1) given

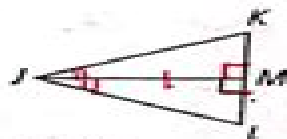
2) all rt $\angle$ s are $\cong$

3) Def of bisect

4) vertical angles

5) ASA

- 7) Given: $\overline{JM}$ bisects $\angle J$, $\overline{JM} \perp \overline{KL}$
Prove: $\triangle JMK \cong \triangle JML$



Thoughts:

- 1) $\overline{JM}$ Bisects $\angle J$
- 2) $\angle JMK \cong \angle JML$
- 3) $\angle KJM \cong \angle LJM$ are right $\angle$ s
- 4) $\angle KJM \cong \angle LJM$
- 5) $JM \cong JM$
- 6) $\triangle JMK \cong \triangle JML$

Statements

Reasons

1) given

2) Def of bisect

3) Def of $\perp$, linear pair

4) All right $\angle$ s are $\cong$

5) Reflexive

6) ASA

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**J. Michael Spector, Barbara B.
Lockee, Marcus D. Childress**

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