

Chapter 4 Review

Homework Answers

Pg 223 - #1-5

Pg 236 - #1-16

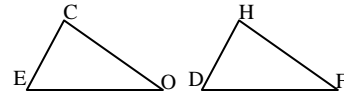
Pg 223

- 1) $\overline{PR} \cong \overline{SQ}$; $\angle P \cong \angle S$; $\angle PRQ \cong \angle SQR$
- 2) a) Isosceles Δ
b) \cong
c) Converse of the Isosceles Δ Theorem
- 3) ΔAED ; $\angle EAB \cong \angle EDC$ (Given)
 ΔEBC ; $\angle EBC \cong \angle ECB$ (Suppl. of \cong 's are \cong)
- 4) HL
- 5) $\Delta GTW \cong \Delta SWT$ by SAS since:
 $\overline{WT} \cong \overline{WT}$, $\angle WTG \cong \angle TWS$, & $\overline{GT} \cong \overline{SW}$.
So $\overline{GW} \cong \overline{ST}$ by CPCTC.

Pg 236

- 1) $\Delta PAY \cong \Delta APL$
- 2) $\Delta ONE \cong \Delta OSE$
- 3) SAS
- 4) HL
- 5) Not Possible
- 6) SSS
- 7) ASA
- 8) AAS
- 9) Answers may vary...sample:
The corr. sides of the 2 Δ 's may not be \cong .

10) Pictures may vary...sample:



Angles	Sides
$\angle C \cong \angle H$	$\overline{CE} \cong \overline{HD}$
$\angle E \cong \angle D$	$\overline{CO} \cong \overline{HF}$
$\angle O \cong \angle F$	$\overline{EO} \cong \overline{DF}$

- 11) No; the lengths may be different.
- 12) 36
- 13) $\angle ATG \cong \angle SGT$ (alt. int. \angle 's since $\overline{AT} \parallel \overline{GS}$)
 $\overline{AT} \cong \overline{GS}$ (Given)
 $\overline{GT} \cong \overline{GT}$ (Reflexive POC)
 $\Delta GAT \cong \Delta TSG$ (SAS)
- 14) $\angle OLN \cong \angle MLN$ & $\angle ONL \cong \angle MNL$
since \overline{LN} bisects $\angle OLM$ & $\angle ONM$
 $\overline{LN} \cong \overline{LN}$ by Reflexive POC
 $\Delta OLN \cong \Delta MLN$ by ASA
- 15) $\Delta CFE \cong \Delta DEF$; SSS
- 16) $\Delta TQS \cong \Delta TRA$; SAS