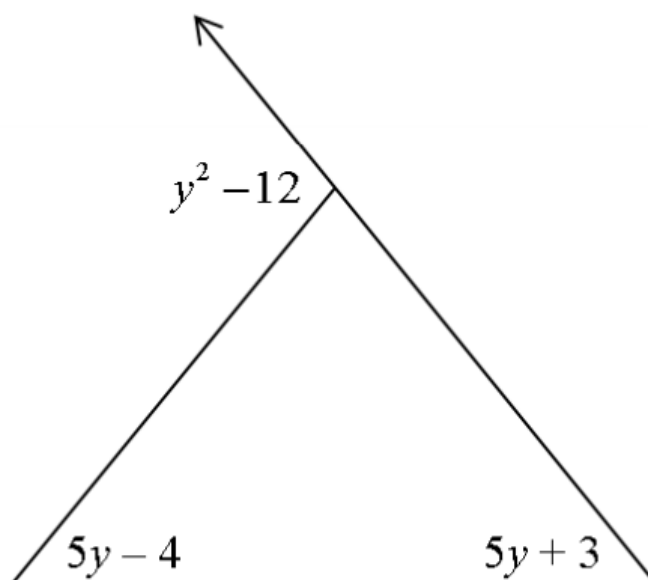


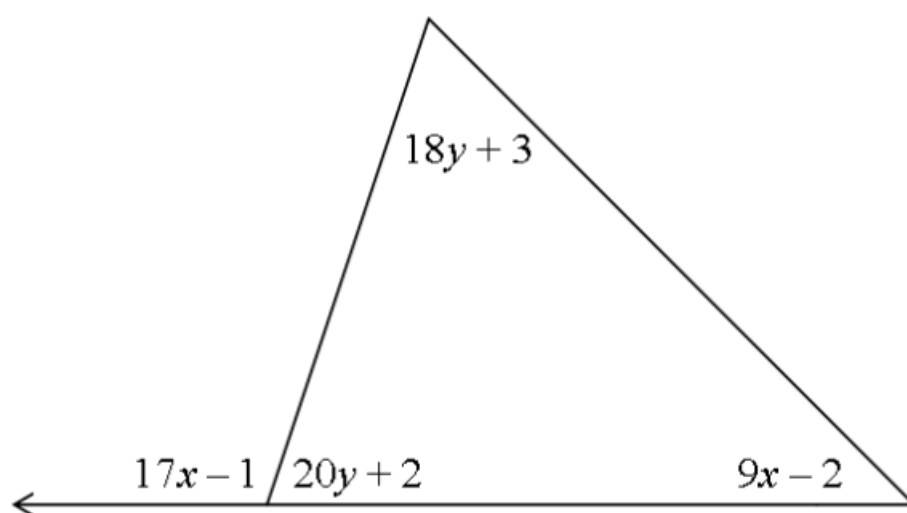
Chapter 4 Study Guide

Complete problems in the textbook study guide pgs. 741-746 #11-33 and the following problems and proofs.

34. Find y .



35. Find x and y .

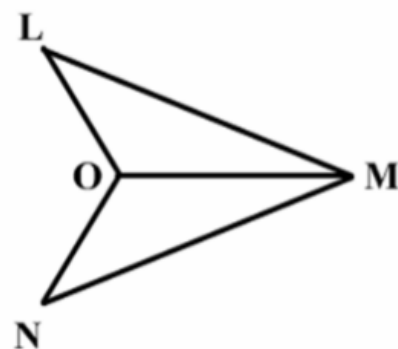


36. $\triangle QRS$ is equilateral. QR is two less than two times a number, RS is six more than the number, and QS is ten less than three times the number. Find all three side lengths.

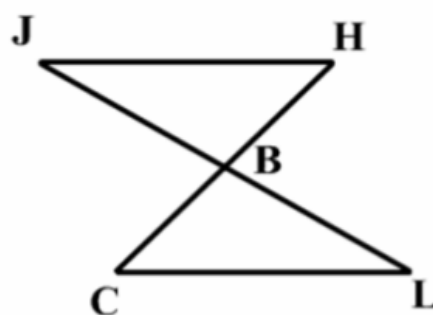
37.

Given: \overline{OM} bisects $\angle LMN$
 $\overline{LM} \cong \overline{NM}$

Prove: $\triangle MOL \cong \triangle MON$

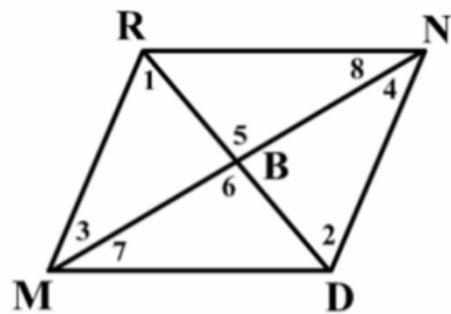


38.

Given: \overline{JL} bisects \overline{HC} $\overline{JH} \parallel \overline{CL}$ Prove: $\triangle JHB \cong \triangle LCB$ 

39. **Given:** $\angle 7 \cong \angle 8$; $RN \cong MD$

Prove: $\triangle RBM \cong \triangle DBN$



40. Given: $\angle 5 \cong \angle 7$; $\angle 3 \cong \angle 4$, $\overline{LW} \cong \overline{RW}$

Prove: $\triangle WLU \cong \triangle WRA$

