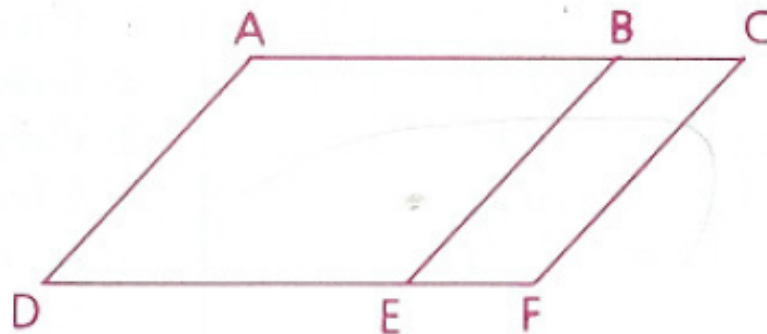


Homework

p. 86-88: 5, 6, 9, 11, 12, 14, 17

5 Given: $\overline{AC} \cong \overline{DF}$,
 $\overline{BC} \cong \overline{EF}$

Prove: $\overline{AB} \cong \overline{DE}$



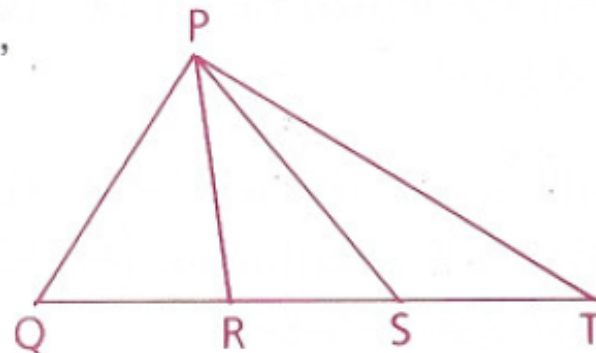
6 Given: $\overline{GH} \cong \overline{JK}$, $GH = x + 10$,
 $HJ = 8$, $JK = 2x - 4$

Find: GJ



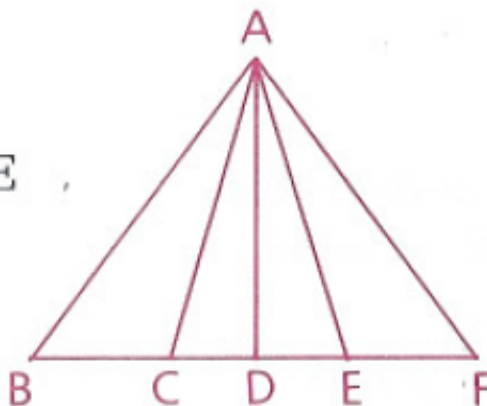
9 Given: $\overline{QR} \cong \overline{ST}$, $QS = 5x + 17$,
 $RT = 10 - 2x$, $RS = 3$

Find: QS and QT



11 Given: $\angle BAD \cong \angle FAD$;
 \overrightarrow{AD} bisects $\angle CAE$.

Conclusion: $\angle BAC \cong \angle FAE$



- 12** Given: J and K are trisection points of \overline{HM} .
 $\overline{GH} \cong \overline{MO}$

Conclusion: $\overline{GJ} \cong \overline{KO}$



- 14** Given: $\angle A$ is comp. to $\angle B$.
 $\angle C$ is comp. to $\angle B$.
 $\angle A = (3x + y)^\circ$,
 $\angle B = (x + 4y + 2)^\circ$,
 $\angle C = (3y - 3)^\circ$

Find: $m\angle B$

- 17** \overrightarrow{BF} bisects $\angle DBE$.

- a** Does \overrightarrow{BF} bisect $\angle CBA$?
b What did you discover about $\angle ABC$ and \overrightarrow{BF} ?

