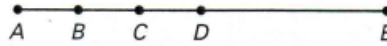


Cumulative Review

For use after Chapters 1-5

$AE = 30$, $AB = 5$, and $\overline{AB} \cong \overline{BC} \cong \overline{CD}$. Find each length. (1.3)

- $AC = \underline{\quad ? \quad}$
- $AD = \underline{\quad ? \quad}$
- $CE = \underline{\quad ? \quad}$

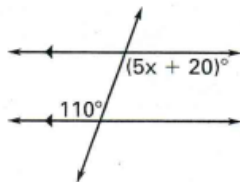


Solve each equation and write a reason for each step. (2.4)

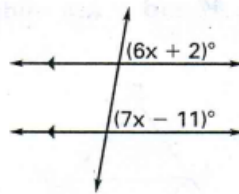
- $p + 6 = 10$
- $3a + 12 = 18$
- $2(c + 4) = 20$

Find the value of x . (3.3)

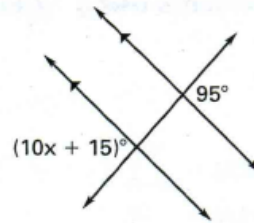
7.



8.

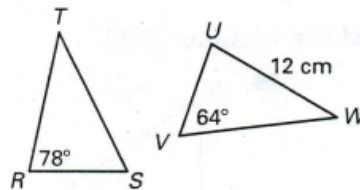


9.



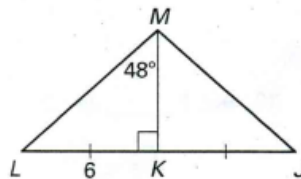
In the diagram, $\triangle RST \cong \triangle UVW$. Complete each statement. (4.2)

- $m\angle S = \underline{\quad ? \quad}$
- $m\angle W = \underline{\quad ? \quad}$
- $RT = \underline{\quad ? \quad}$



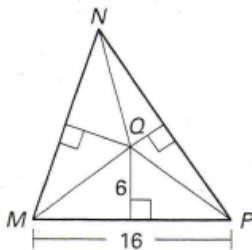
Using bisector theorems, give the angle measure or segment length. (5.1)

- $JK = \underline{\quad ? \quad}$
- $m\angle MLK = \underline{\quad ? \quad}$
- $m\angle MJK = \underline{\quad ? \quad}$

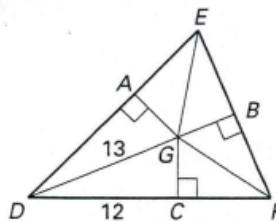


Find the indicated measure. (5.2)

16. The perpendicular bisectors of $\triangle MNP$ meet at Q . Find QN .



17. The angle bisectors of $\triangle DEF$ meet at G . Find GB .

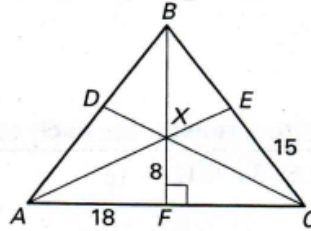


Cumulative Review

For use after Chapters 1–5

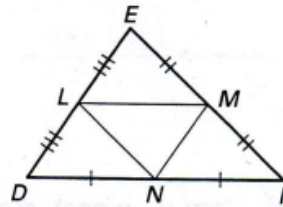
X is the centroid of $\triangle ABC$, $\overline{BF} \perp \overline{AC}$, $XF = 8$, $EC = 15$, $AF = 18$, and $\overline{AB} \cong \overline{BC}$. (5.3)

18. Find the length of \overline{BX} .
19. Find the length of \overline{FC} .
20. Find the length of \overline{BC} .
21. Find the perimeter of $\triangle ABC$.



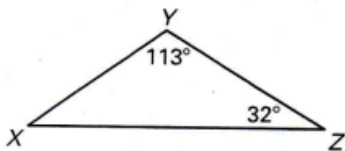
Complete the statements using $\triangle DEF$ where L , M and N are midpoints of each side. (5.4)

22. $\overline{LN} \parallel$?
23. $\overline{MN} \parallel$?
24. If $DF = 26$, then $LM =$?
25. If $EM = 10$, then $LN =$?
26. If perimeter of $\triangle DEF = 60$, then perimeter of $\triangle LMN =$?

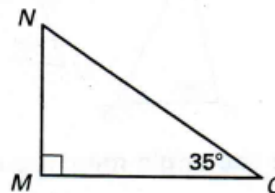


Name the shortest and longest side of the triangle. (5.5)

27.

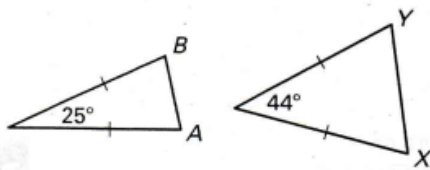


28.



Complete each _____ with $<$, $>$, or $=$. (5.6)

29. AB _____ XY



30. $m\angle 1$ _____ $m\angle 2$

