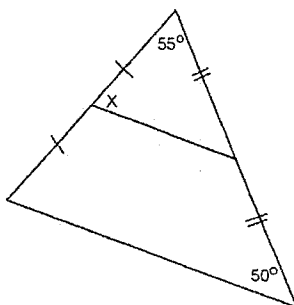


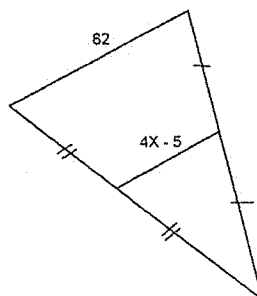
Geometry Review Sec 5-1, 5-2, 5-3, 5-5

Find the value of x in each figure.

2.



3.



1. Points J and K are midpoints.

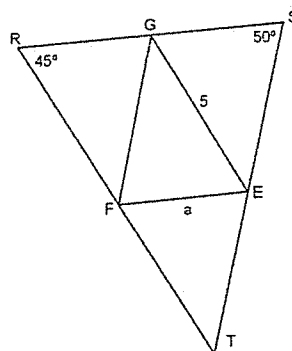
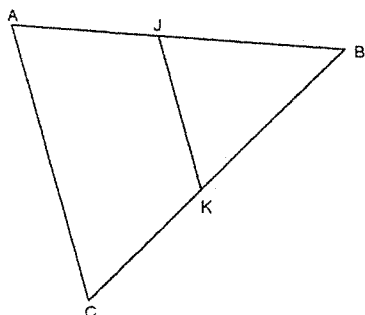
$AJ=8$, $BK=10$, and $AC=13$.

Find the perimeter of $\triangle ABC$ and $\triangle JBK$

5. G, E and F are midpoints.

a) Given $ST=12$ write an expression for the perimeters of $\triangle RST$ and $\triangle EFG$

b) Find the measure of each angle of $\triangle EFG$

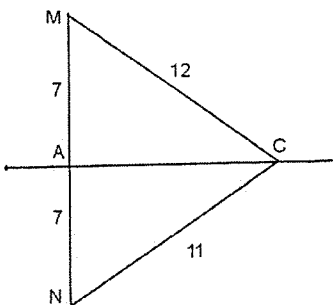
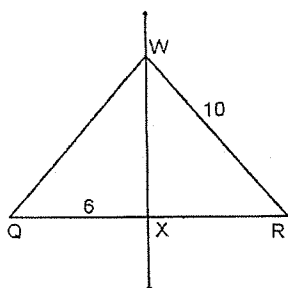


3. \overleftrightarrow{WX} is the \perp bisector of \overline{QR}

Find the lengths of \overline{XR} , \overline{QR} , \overline{QW} and \overline{WX}

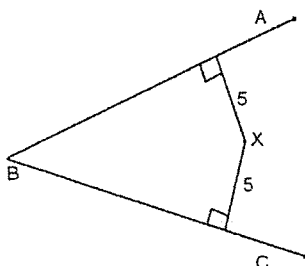
7. Is \overleftrightarrow{AC} the \perp bisector of \overline{MN} ?

Explain your answer.

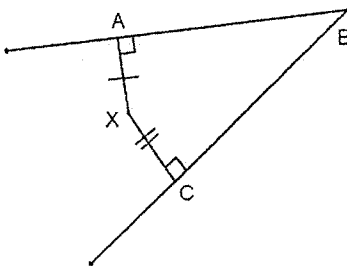


8. Determine if point X is on the angle bisector of $\angle ABC$

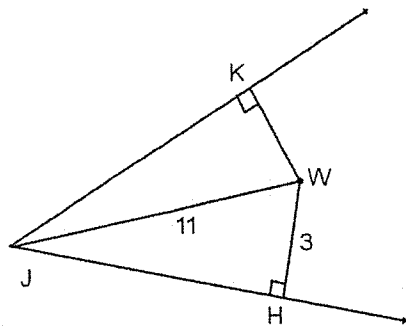
a.



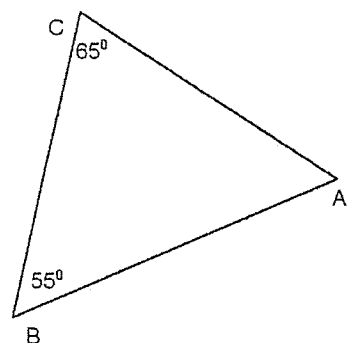
b.



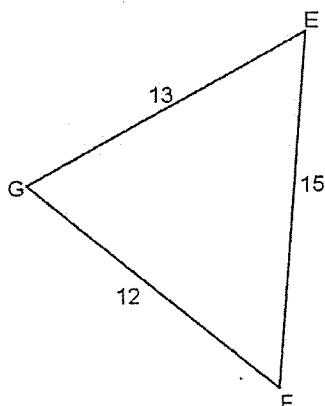
9. W is on the angle bisector of $\angle HJK$. Find the length of \overline{JK}



10. List the sides of $\triangle ABC$ in order from shortest to longest.



11. List the angles of $\triangle EFG$ in order from smallest to largest.



12. In $\triangle PQR$, $PR = 50$, $PQ = 40$, $QR = 37$. List the angles in order from smallest to largest.

13. In $\triangle XYZ$, $\angle X = 43^\circ$ and $\angle Y = 47^\circ$. List the sides in order from shortest to longest.

14. Can a triangle have sides with the given lengths.

- a) 10, 4, 6 b) 8, 12, 5 c) 23, 41, 60

15. Given the two sides of a triangle are 7 and 9 state the possible lengths of the third sides as a compound inequality.

Geometry Review Sec 5-1, 5-2, 5-3, 5-5 ANSWERS

1. $x = 18$ 2. $x = 75^\circ$ 3. $x = 11.5$ 4. Perimeter of $\triangle ABC = 49$ Perimeter of $\triangle JBK = 24.5$
5. Perimeter of $\triangle RST = 22 + 2a$ Perimeter of $\triangle EFG = 11 + a$
In $\triangle EFG$ $m\angle G = 85^\circ, m\angle E = 45^\circ, m\angle F = 50^\circ$
6. $XR = 6, QR = 12, QW = 10, WX = 8$
7. No, Pt C isn't equidistant from the endpoints of \overline{MN}
8. a. Yes, X is equidistant from the two sides of $\angle ABC$
b. No, X isn't equidistant from the two sides of $\angle ABC$
9. $JK = 10.58$ 10. $\overline{AC}, \overline{BC}, \overline{AB}$ 11. $\angle E, \angle F, \angle G$
12. $\angle P, \angle R, \angle Q$ 13. $\overline{YZ}, \overline{XZ}, \overline{XY}$ 14. a) No b) Yes b) Yes
15. $2 < x < 16$