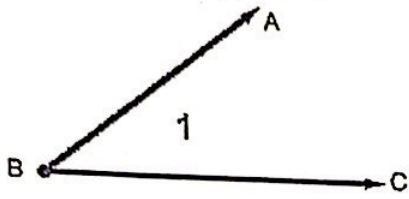


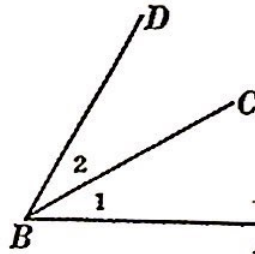
Name _____
 Date _____ Period _____

Analytic Geometry
 Basics of Geometry Review

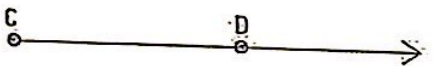
1. Name this angle every way possible



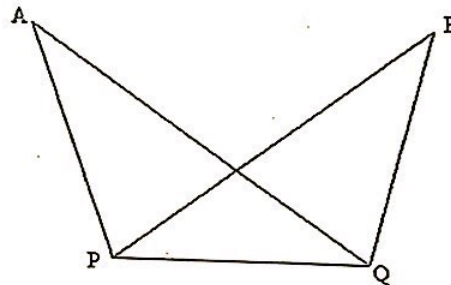
2. What can you NOT name this angle?



3. Name each line, segment, or ray

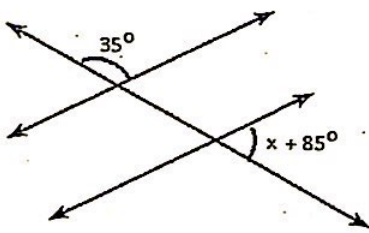


4. Mark the figure with the following given information.

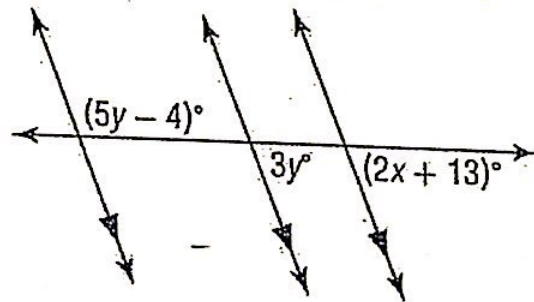


- | | |
|----|-------------------------------------|
| a) | $\overline{AP} \cong \overline{BQ}$ |
| b) | $\angle BPQ \cong \angle AQP$ |
| c) | $\angle PAQ \cong \angle QBP$ |

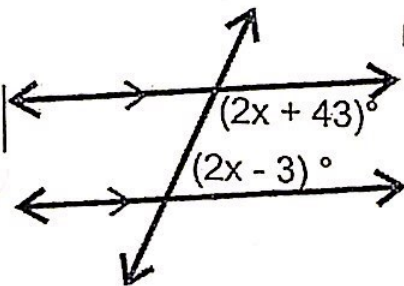
5. Solve for x



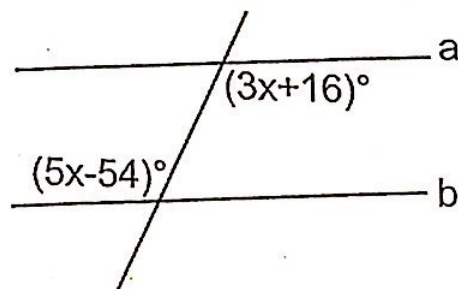
6. Given parallel lines, solve for x and y



7. Solve for x



8. Solve for x given parallel lines



9. Answer the following questions

\overline{GH} , \overline{HJ} and \overline{JG} are midsegments of $\triangle DEF$

1) $\overline{JH} \parallel$ _____

2) $\overline{DE} \parallel$ _____

3) $\overline{EF} =$ _____

4) $\overline{GH} =$ _____

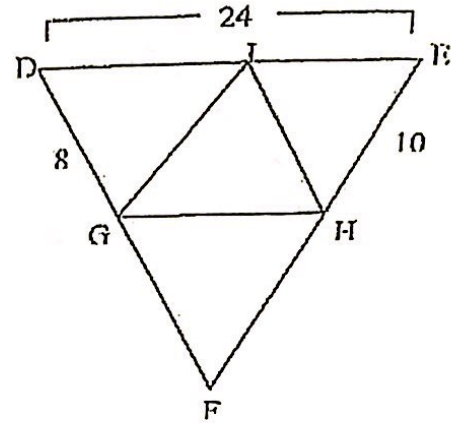
5) $\overline{DF} =$ _____

6) $\overline{JH} =$ _____

7) Find the perimeter of $\triangle GHJ$ _____

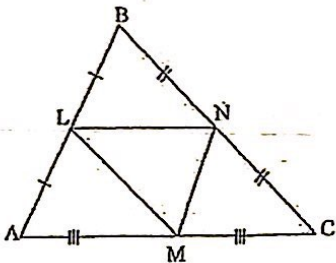
8) If $m\angle DGJ = 110^\circ$, find $m\angle DFH$

9) If $m\angle DEH = 52^\circ$, find $m\angle GHE$

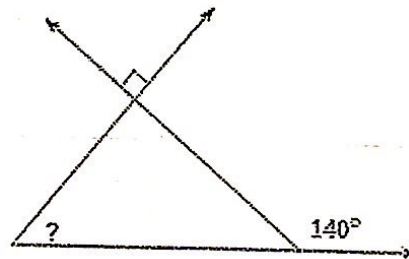


10. Answer the following question.

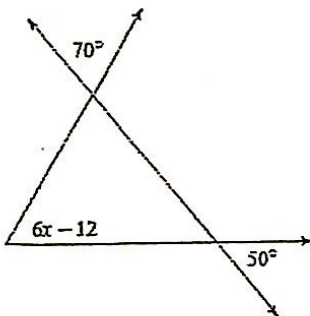
If $LM = 3x + 7$, and $BC = 7x + 6$, then $LM =$ _____



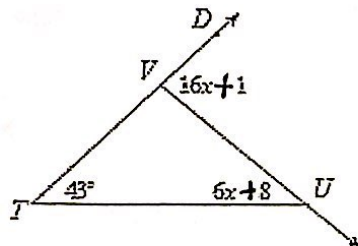
11. Find the missing measurement.



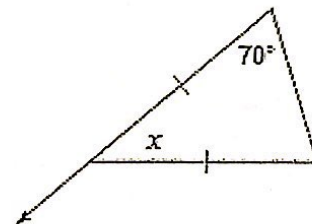
12. Solve for x



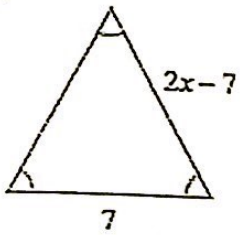
13. Solve for x



14. Solve for x

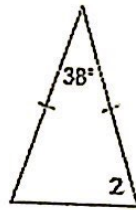


15. Solve for x



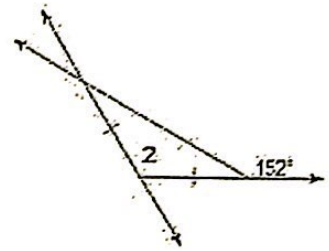
16. Solve for x

$$m\angle 2 = 6x - 1$$



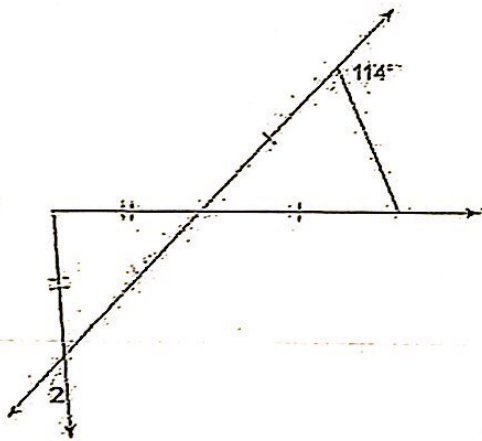
17. Solve for x

$$m\angle 2 = x + 134$$

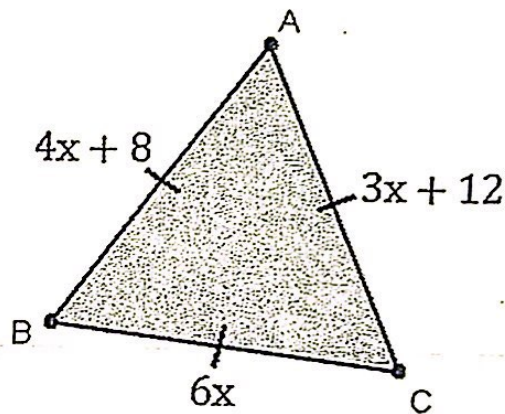


18. Solve for x

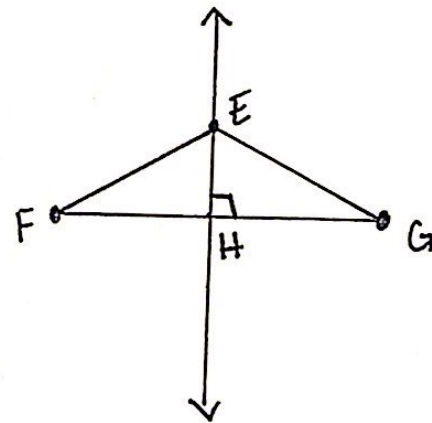
$$m\angle 2 = 6x + 6$$



19. Solve for x

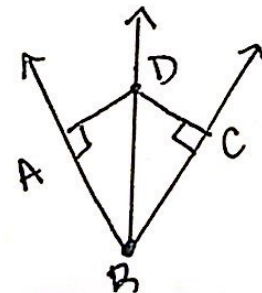


20. Given $\overline{FE} \cong \overline{EG}$ & $FG = 14$,
Find GH . _____



21. $\overline{FH} \cong \overline{GH}$. If $FE = 2x + 1$ &
 $GE = 26$, find x . _____

22. \overline{BD} is an angle bisector. If $AD = x + 8$ &
 $CD = 3x - 4$, find AD . _____



23. If $\overline{AD} \cong \overline{DC}$ & $m\angle ABC = 52^\circ$, find