

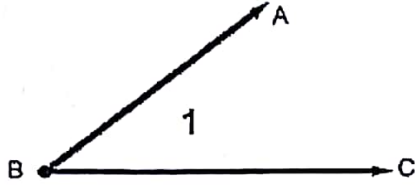
Name _____

Date _____ Period _____

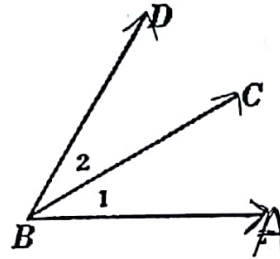
Analytic Geometry

Basics of Geometry Review

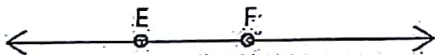
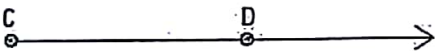
1. Name this angle every way possible



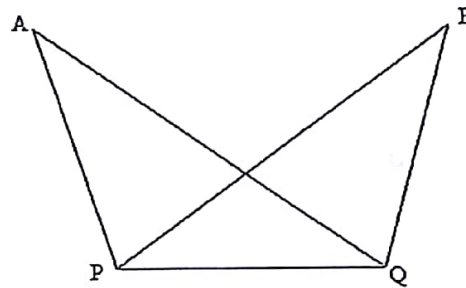
2. What can you NOT name this angle?



3. Name each line, segment, or ray

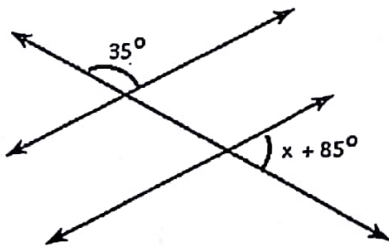


4. Mark the figure with the following given information.

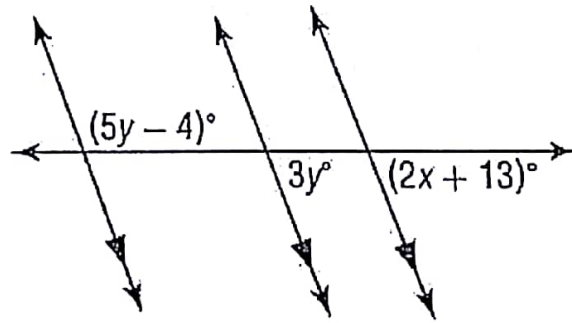


- a) $\overline{AP} \cong \overline{BQ}$
- b) $\angle BPQ \cong \angle AQP$
- c) $\angle PAQ \cong \angle QBP$

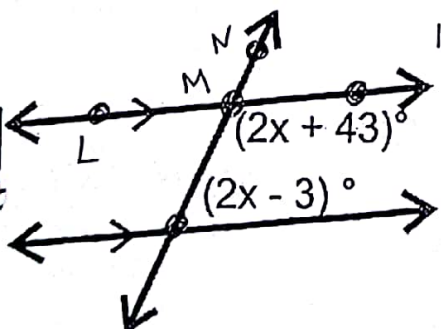
5. Solve for x



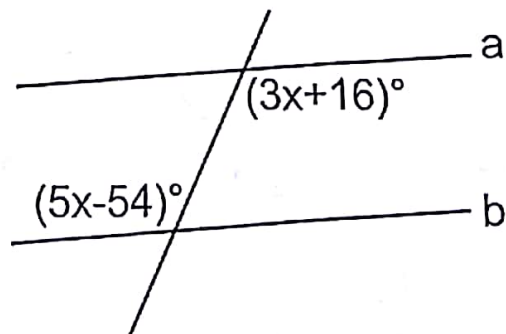
6. Given parallel lines, solve for x and y



7. Solve for x, then find m∠LMN.



8. Solve for x given parallel lines



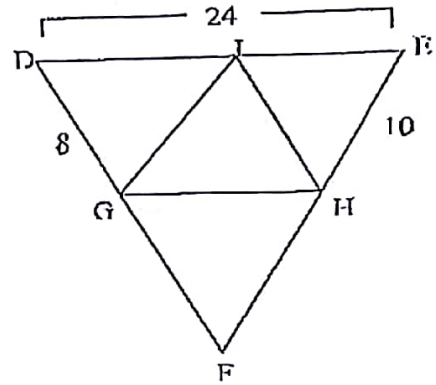
9. Answer the following questions

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

- 1) $\overline{JH} \parallel$ _____
- 2) $\overline{DE} \parallel$ _____
- 3) $EF =$ _____
- 4) $GH =$ _____
- 5) $DF =$ _____
- 6) $JH =$ _____
- 7) Find the perimeter of $\triangle GHJ$ _____

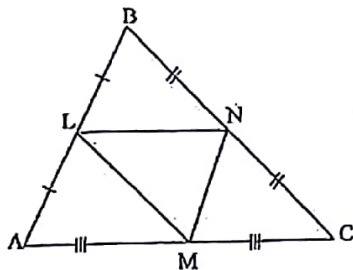
8) If $m\angle DGJ = 110^\circ$, find $m\angle DFH$

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

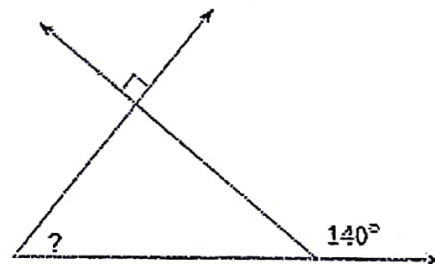


10. Answer the following question.

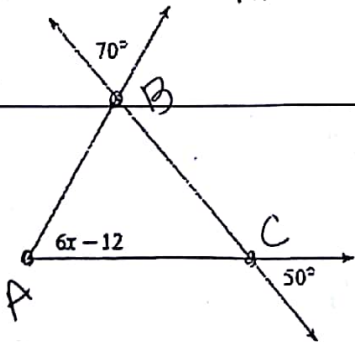
If $LM = 3x + 7$, and $BC = 7x + 6$, then $LM =$ _____



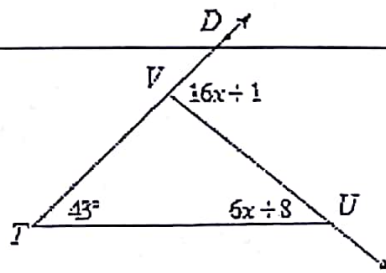
11. Find the missing measurement.



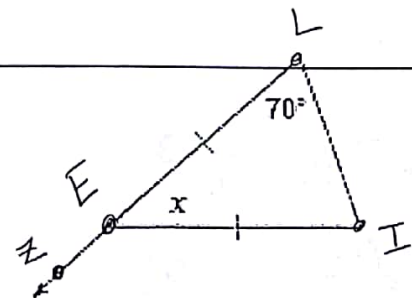
12. Solve for x , then find $m\angle A$.



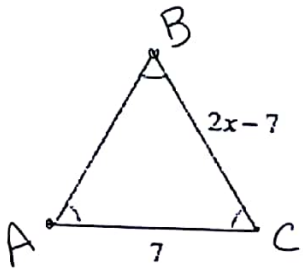
13. Solve for x , then find $m\angle VUT$



14. Solve for x , then find $m\angle ZEI$

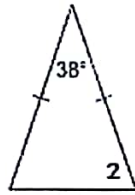


15. Solve for x



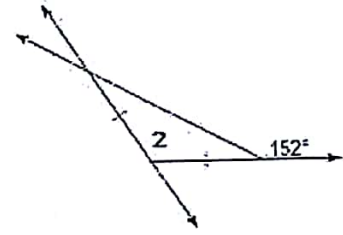
16. Solve for x

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



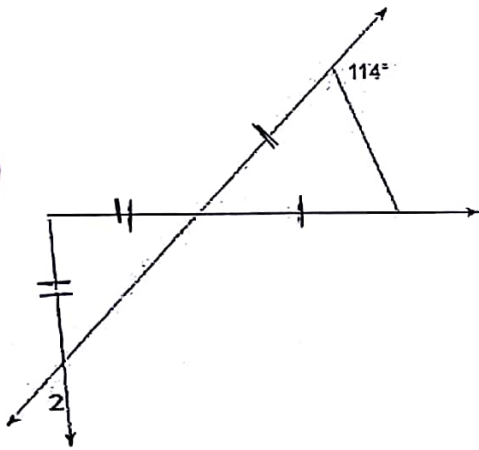
17. Solve for x

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

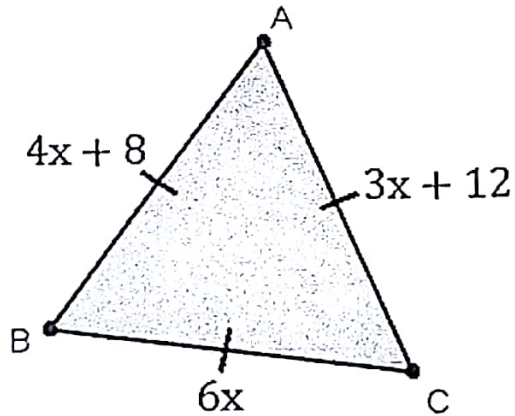


18. Solve for x

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

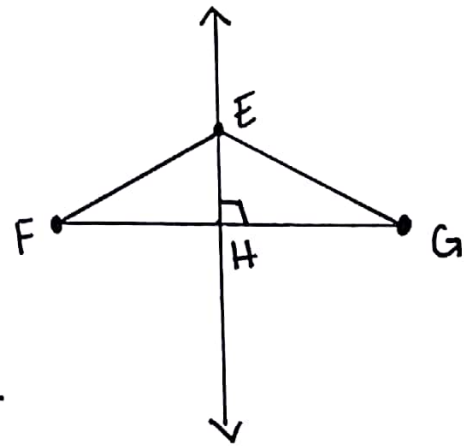


19. Solve for x



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. \overrightarrow{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 the $m\angle ABD$.

