

Name \_\_\_\_\_

Date \_\_\_\_\_ Period \_\_\_\_\_

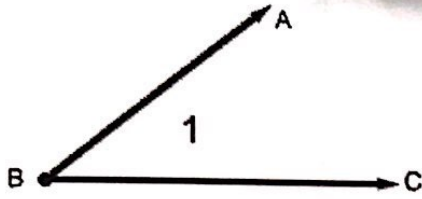
Analytic Geometry

Basics of Geometry Review

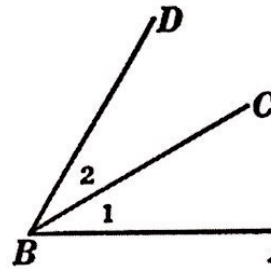


1. Name this angle every way possible

$\angle ABC$   
 $\angle CBA$   
 $\angle B$   
 $\angle 1$

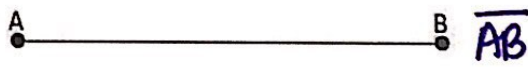


2. What can you NOT name this angle?

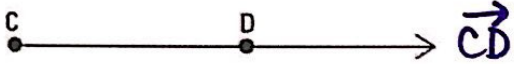


$\angle B$

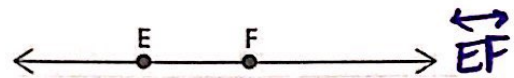
3. Name each line, segment, or ray



$\overline{AB}$

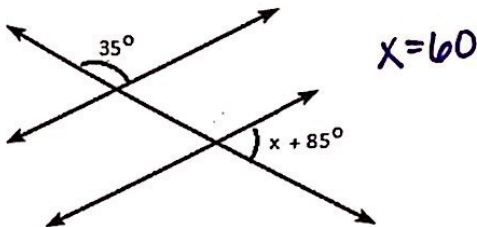


$\vec{CD}$



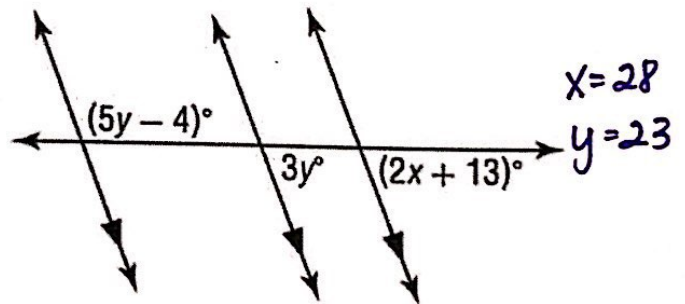
$\overleftrightarrow{EF}$

5. Solve for x



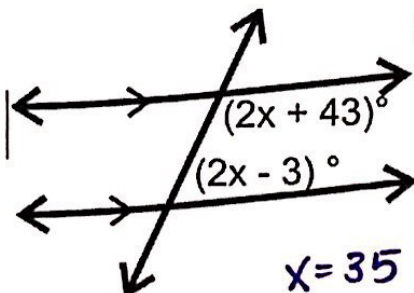
$x = 60$

6. Given parallel lines, solve for x and y



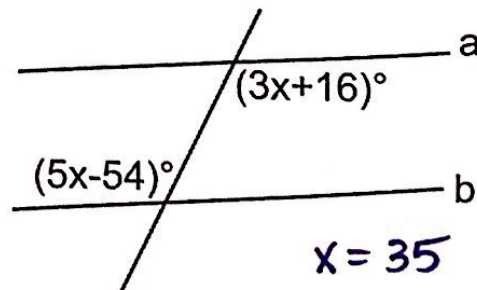
$x = 28$   
 $y = 23$

7. Solve for x



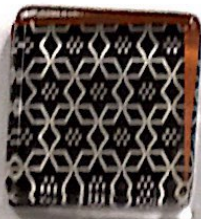
$x = 35$

8. Solve for x given parallel lines



$x = 35$

9. Answer the following questions

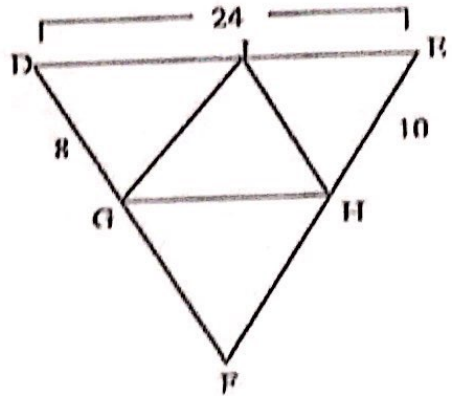


$\overline{GH}$ ,  $\overline{HJ}$  and  $\overline{JG}$  are midsegments of  $\triangle DRF$

- 1)  $\overline{JH} \parallel \overline{DF}$
- 2)  $\overline{DE} \parallel \overline{GH}$
- 3)  $EF = 20$
- 4)  $GH = 12$
- 5)  $DF = 16$
- 6)  $JH = 8$
- 7) Find the perimeter of  $\triangle GHJ = 30$

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

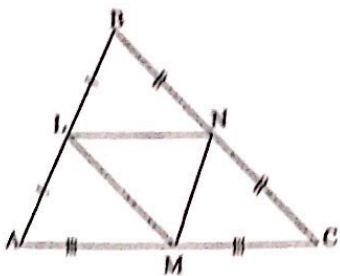
9) If  $m\angle DEH = 52^\circ$ , find  $m\angle GHE = 128^\circ$



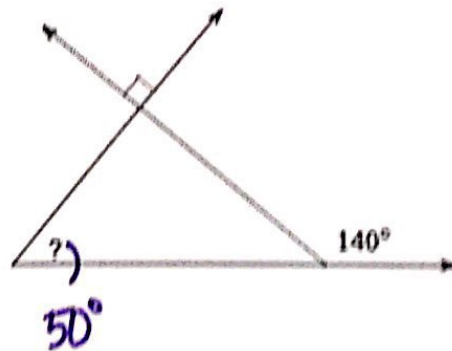
10. Answer the following question.

If  $LM = 3x + 7$ , and  $BC = 7x + 6$ , then  $LM = 31$

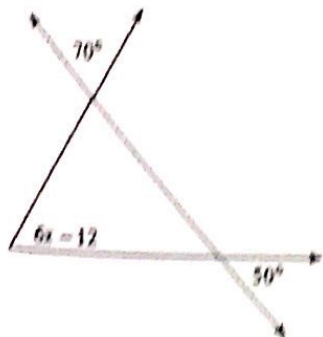
11. Find the missing measurement.



$x = 8$

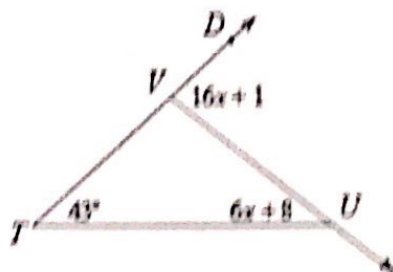


12. Solve for  $x$



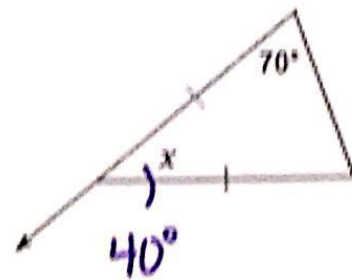
$x = 12$

13. Solve for  $x$

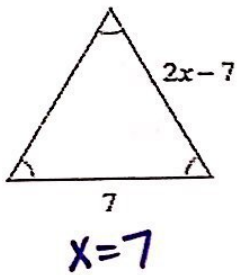


$x = 5$

14. Solve for  $x$

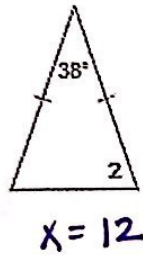


15. Solve for x



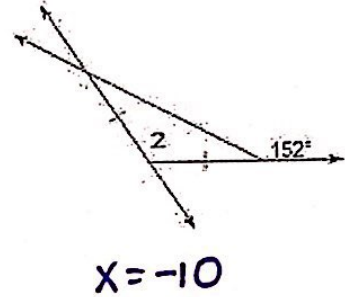
16. Solve for

$m\angle 2 = 6x - 1$



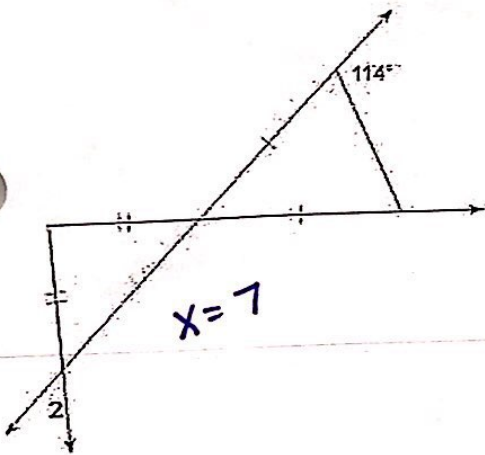
17. Solve for x

$m\angle 2 = x + 134$

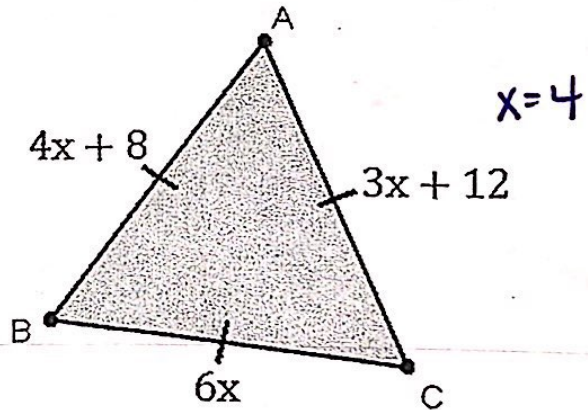


18. Solve for x

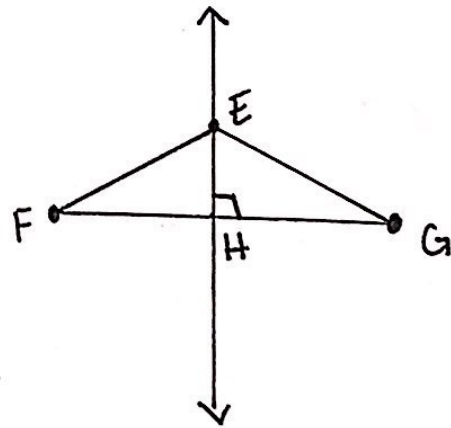
$m\angle 2 = 6x + 6$



19. Solve for x

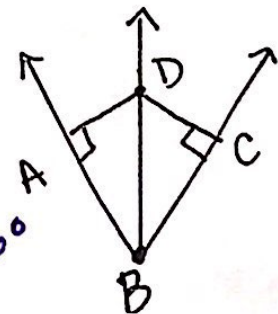


20. Given  $\overline{FE} \cong \overline{EG}$  &  $FG=14$ ,  
Find GH. 7



21.  $\overline{FH} \cong \overline{GH}$ . If  $FE=2x+1$  &  
 $GE=26$ , find x. 12.5

22.  $\overline{BD}$  is an angle bisector. If  $AD=x+8$  &  
 $CD=3x-4$ , find AD. 14



23. If  $\overline{AD} \cong \overline{DC}$  &  $m\angle ABC = 52^\circ$ , find  $m\angle DBC = 26^\circ$