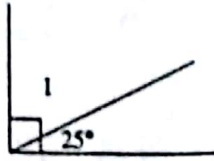


# INTERSECTING LINES

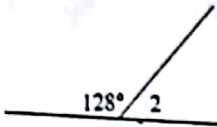
Find the measure of each required angle and give the reason for your answer.

1.



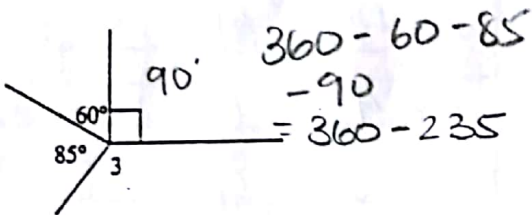
$\angle 1 = 65^\circ$  comp  $\angle$ s.

2.



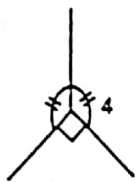
$\angle 2 = 52^\circ$   $\angle$ s on a line

3.



$\angle 3 = 125^\circ$   $\angle$ s on a pt

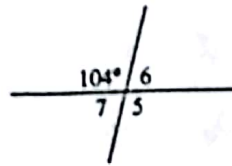
4.



$\angle 4 = 135^\circ$   $\angle$ s on a pt

$360 - 90 = 270$   
 $\frac{270}{2} = 135$

5.

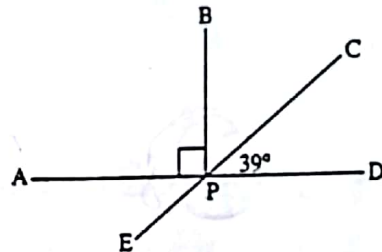


$\angle 5 = 104^\circ$  VERT OPP

$\angle 6 = 76^\circ$   $\angle$ s on a line

$\angle 7 = 76^\circ$  vert opp

6.

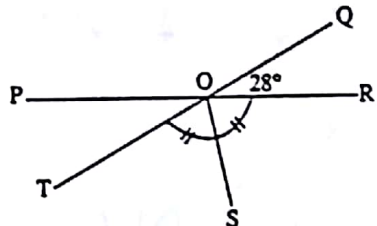


$\angle BPD = 90^\circ$   $\angle$ s on a line

$\angle BPC = 51^\circ$  comp  $\angle$ s

$\angle APE = 39^\circ$  vert opp

7.



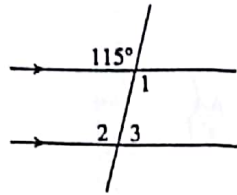
$\angle POT = 28^\circ$  VERT OPP

$\angle POQ = 152^\circ$   $\angle$ s on a line

$\angle ROT = 152^\circ$  VERT OPP

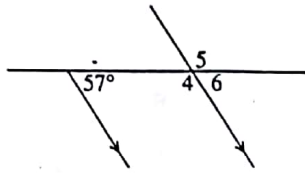
$\angle ROS = 76^\circ$  half of  $\angle ROT$

8.



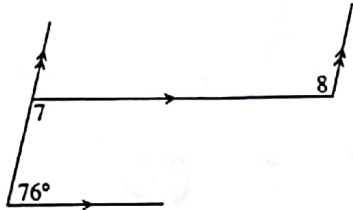
- $\angle 1 = 115^\circ$  VERT OPP
- $\angle 2 = 115^\circ$  alt int w 2
- $\angle 3 = 65^\circ$  INT LS w 1

9.



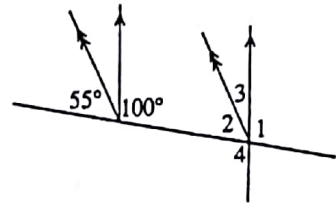
- $\angle 4 = 123^\circ$  INT LS w 57
- $\angle 5 = 123^\circ$  VERT OPP w 4
- $\angle 6 = 57^\circ$  CORR LS

10.



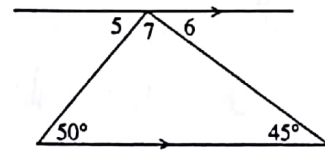
- $\angle 7 = 104^\circ$  INT LS w 76
- $\angle 8 = 104^\circ$  alt int LS w 7

11.



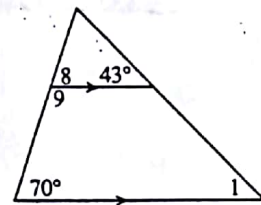
- $\angle 1 = 100^\circ$  CORR LS
- $\angle 2 = 55^\circ$  CORR LS
- $\angle 3 = 25^\circ$  LS on a line
- $\angle 4 = 100^\circ$  VERT OPP L1

12.



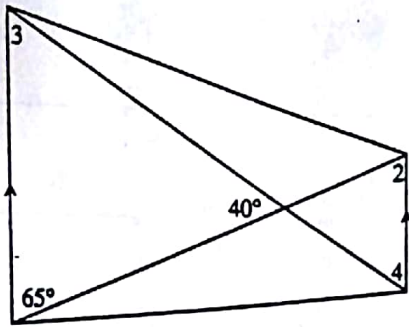
- $\angle 5 = 50^\circ$  alt int LS
- $\angle 6 = 45^\circ$  alt int LS
- $\angle 7 = 85^\circ$  LS in D

13.



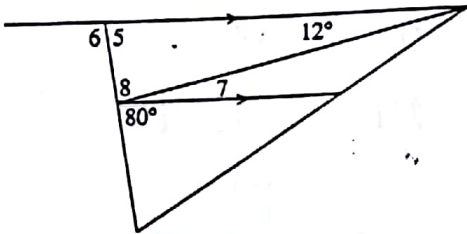
- $\angle 8 = 70^\circ$  CORR LS
- $\angle 9 = 110^\circ$  INT LS
- $\angle 1 = 43^\circ$  CORR LS

14.



- $\angle 2 = 65^\circ$  alt int  $\angle$ s
- $\angle 3 = 75^\circ$   $\angle$ s in a  $\Delta$
- $\angle 4 = 75^\circ$  alt int  $\angle$ s

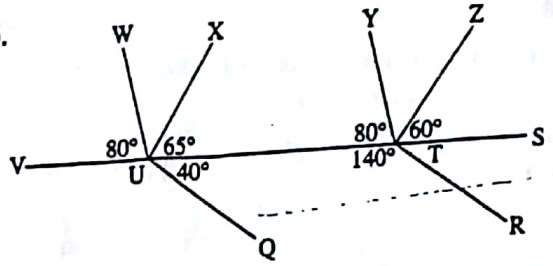
15.



- $\angle 5 = 80^\circ$  corr  $\angle$ s
- $\angle 6 = 100^\circ$   $\angle$ s on a line
- $\angle 7 = 12^\circ$  alt int  $\angle$ s
- $\angle 8 = 88^\circ$   $\angle$ s on a line

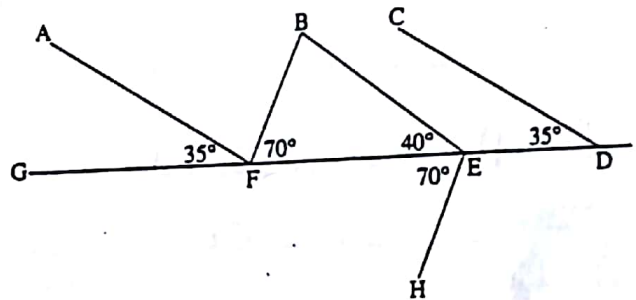
Name 2 pairs of parallel segments in each figure. State the reason for your answer.

16.



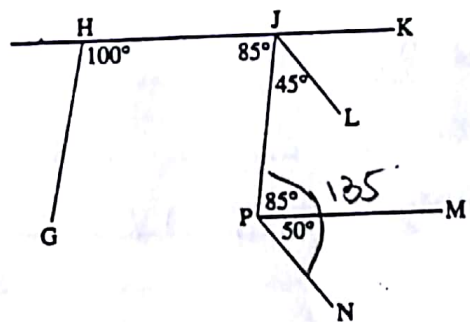
- $UW \parallel TY$  corr  $\angle$ s are equal.
- $UQ \parallel TR$  int  $\angle$ s are supp

17.



- $AF \parallel CB$  corr  $\angle$ s equal
- $BF \parallel CH$  alt int  $\angle$ s are equal

18.

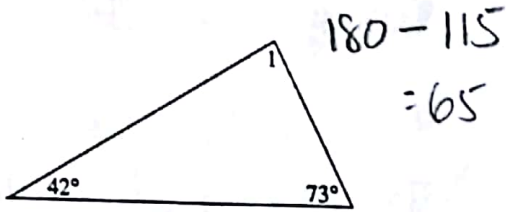


- $HJ \parallel PM$  alt int  $\angle$ s =
- $JL \parallel PN$  int  $\angle$ s are supp

# TRIANGLES

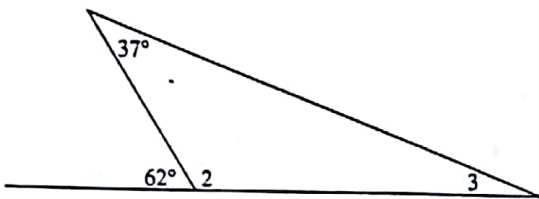
Find the measure of each required angle and give the reason for your answer.

1.



$\angle 1 = 65'$  LS in a  $\Delta$

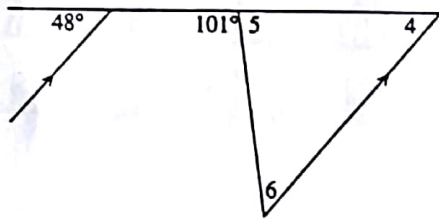
2.



$\angle 2 = 118'$  LS on a line

$\angle 3 = 25'$  LS in  $\Delta$

3.

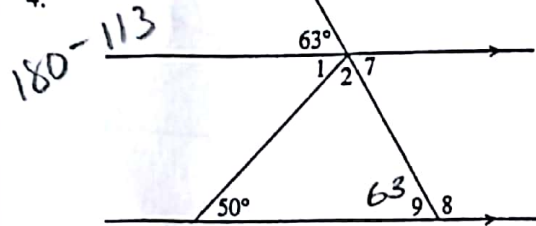


$\angle 4 = 48'$  corr LS

$\angle 5 = 79'$  LS on a line

$\angle 6 = 53'$  LS in  $\Delta$

4.



$\angle 7 = 63'$  vert opp.

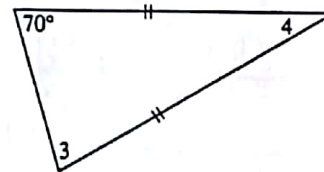
$\angle 8 = 117'$  int LS w  $\angle 7$

$\angle 9 = 63'$  alt int LS w  $\angle 7$

$\angle 1 = 50'$  alt int LS

$\angle 2 = 67'$  LS in  $\Delta$

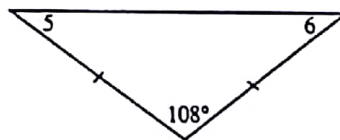
5.



$\angle 3 = 70'$  isos  $\Delta$

$\angle 4 = 40'$  LS in  $\Delta$

6.

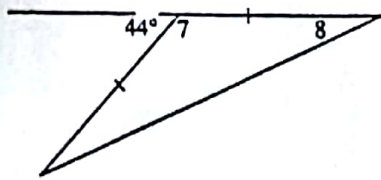


$\angle 5 = 36'$  isos  $\Delta$

$\angle 6 = 36'$  LS in  $\Delta$

$\frac{72}{2} = 36$

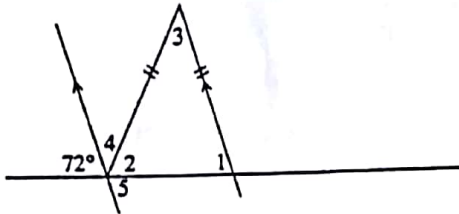
7.



$\angle 7 = 136^\circ$  LS on line

$\angle 8 = 72^\circ$  ISOS  $\Delta$

8.



$\angle 1 = 72^\circ$  CORR LS

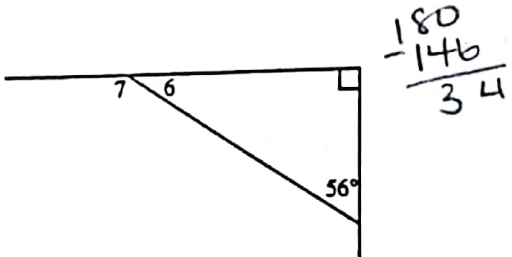
$\angle 2 = 72^\circ$  ISOS  $\Delta$

$\angle 3 = 36^\circ$  LS in  $\Delta$

$\angle 4 = 36^\circ$  alt int  $\bar{w}$   $\angle 3$

$\angle 5 = 72^\circ$  alt int  $\bar{w}$   $\angle 1$

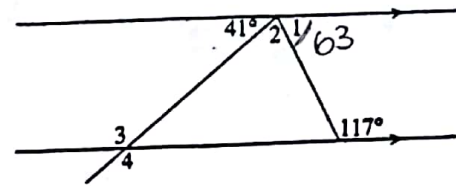
9.



$\angle 6 = 34^\circ$  LS in  $\Delta$

$\angle 7 = 146^\circ$  LS on line

10.



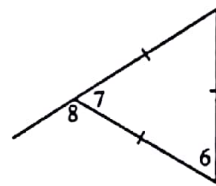
$\angle 1 = 63^\circ$  INT. LS

$\angle 2 = 76^\circ$  LS on a line

$\angle 3 = 139^\circ$  INT LS  $\bar{w}$   $\angle 4$

$\angle 4 = 139^\circ$  VERT OPP.

11.

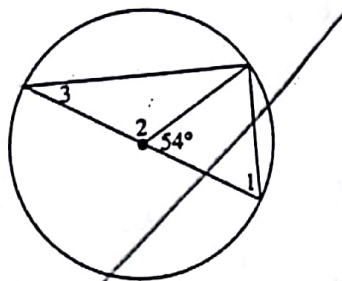


$\angle 6 = 60^\circ$  EQUIL  $\Delta$

$\angle 7 = 60^\circ$  EQUIL  $\Delta$

$\angle 8 = 120^\circ$  LS on a line

12.



$\angle 1 =$  \_\_\_\_\_

$\angle 2 =$  \_\_\_\_\_

$\angle 3 =$  \_\_\_\_\_

omit