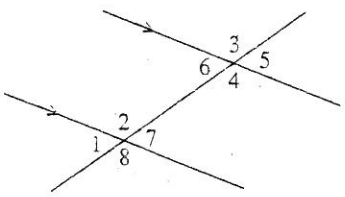
PARALLEL LINES

1.



Identify an angle that is:

a) alternate interior to ∠7 _____

b) corresponding to ∠2 _____

c) interior and on the same side of the transversal to ∠4 _____

d) corresponding to ∠4 _____

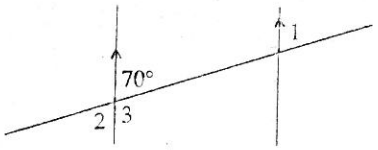
e) vertically opposite to ∠6 _____

f) supplementary to ∠3 _____

g) congruent to ∠8 _____

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

2.

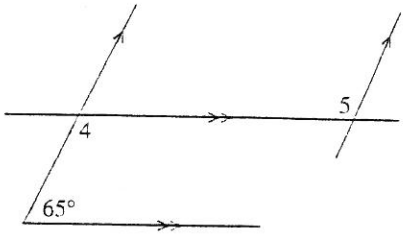


∠1 = _____ _____

∠2 = _____ _____

∠3 = _____ _____

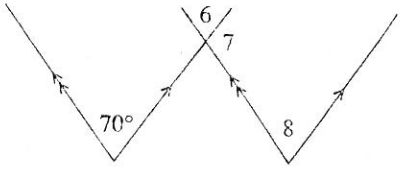
3.



∠4 = _____ _____

∠5 = _____ _____

4.

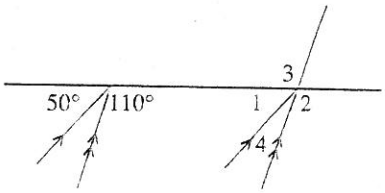


∠6 = _____ _____

∠7 = _____ _____

∠8 = _____ _____

5.



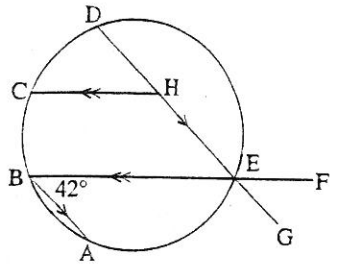
∠1 = _____ _____

∠2 = _____ _____

∠3 = _____ _____

∠4 = _____ _____

6.



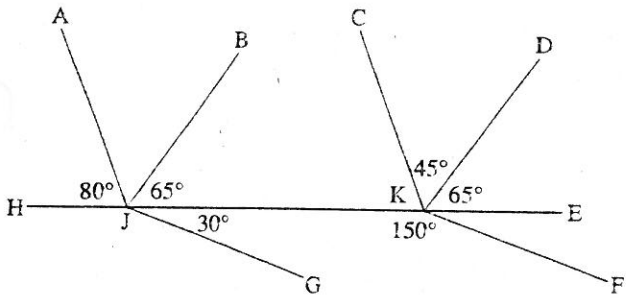
∠BEH = _____ _____

∠EHC = _____ _____

∠GEF = _____ _____

Identify all pairs of segments that look parallel in the diagram. Write a reason why they are or are not parallel.

7.

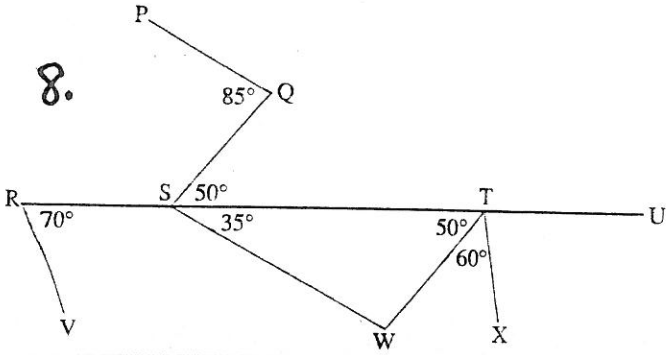


JB || _____ _____

_____ _____

_____ _____

8.

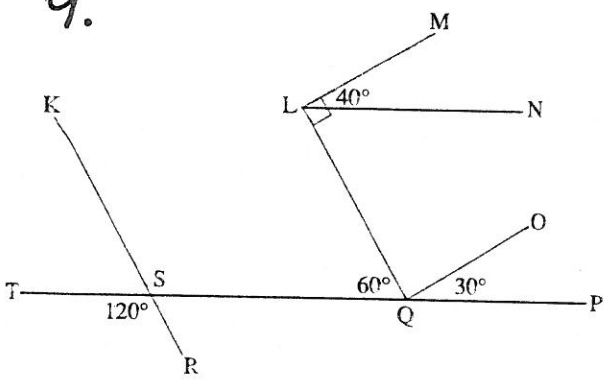


_____ _____

_____ _____

_____ _____

9.

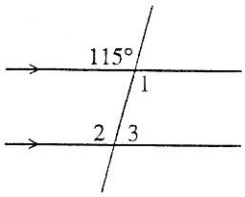


_____ _____

_____ _____

_____ _____

10.

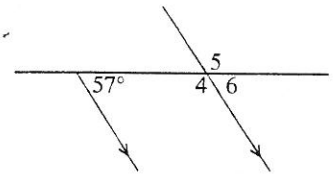


∠1 = _____ _____

∠2 = _____ _____

∠3 = _____ _____

11.

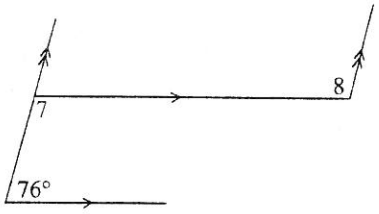


∠4 = _____ _____

∠5 = _____ _____

∠6 = _____ _____

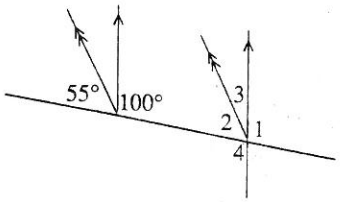
12.



∠7 = _____ _____

∠8 = _____ _____

13.



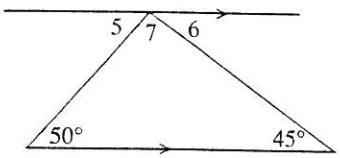
∠1 = _____ _____

∠2 = _____ _____

∠3 = _____ _____

∠4 = _____ _____

14.

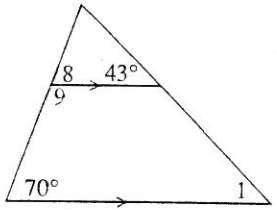


∠5 = _____ _____

∠6 = _____ _____

∠7 = _____ _____

15.

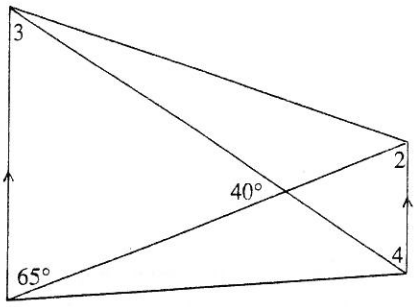


∠8 = _____ _____

∠9 = _____ _____

∠1 = _____ _____

16.

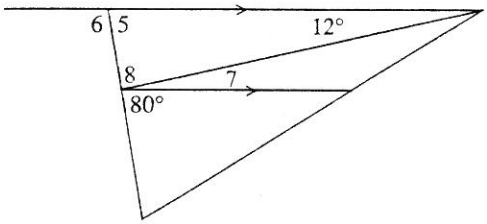


∠2 = _____ _____

∠3 = _____ _____

∠4 = _____ _____

17.



∠5 = _____ _____

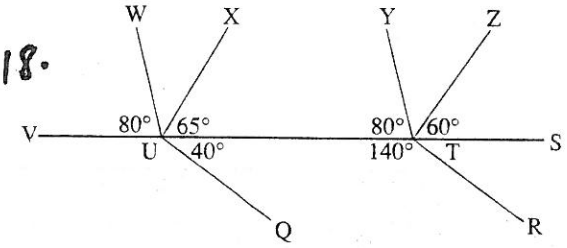
∠6 = _____ _____

∠7 = _____ _____

∠8 = _____ _____

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

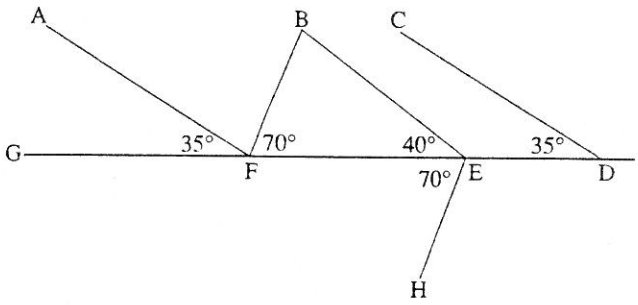
18.



UW || _____ _____

_____ _____

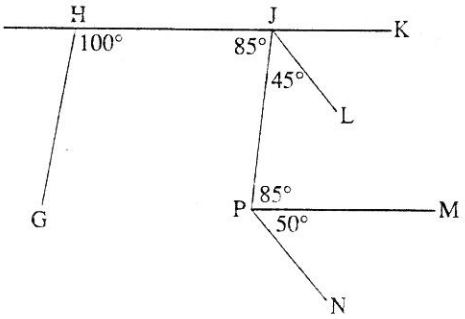
19.



_____ _____

_____ _____

20.



_____ _____

_____ _____