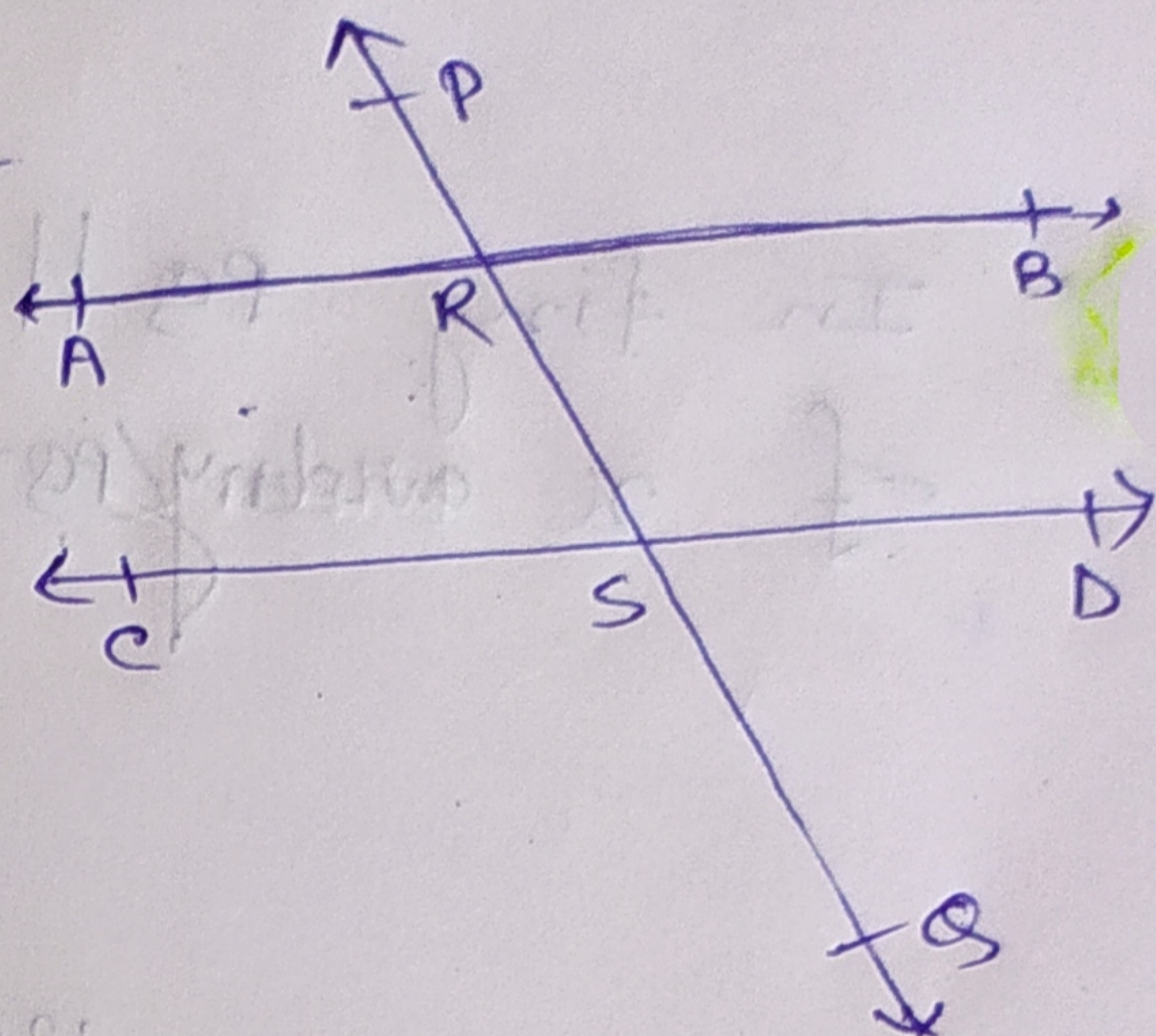
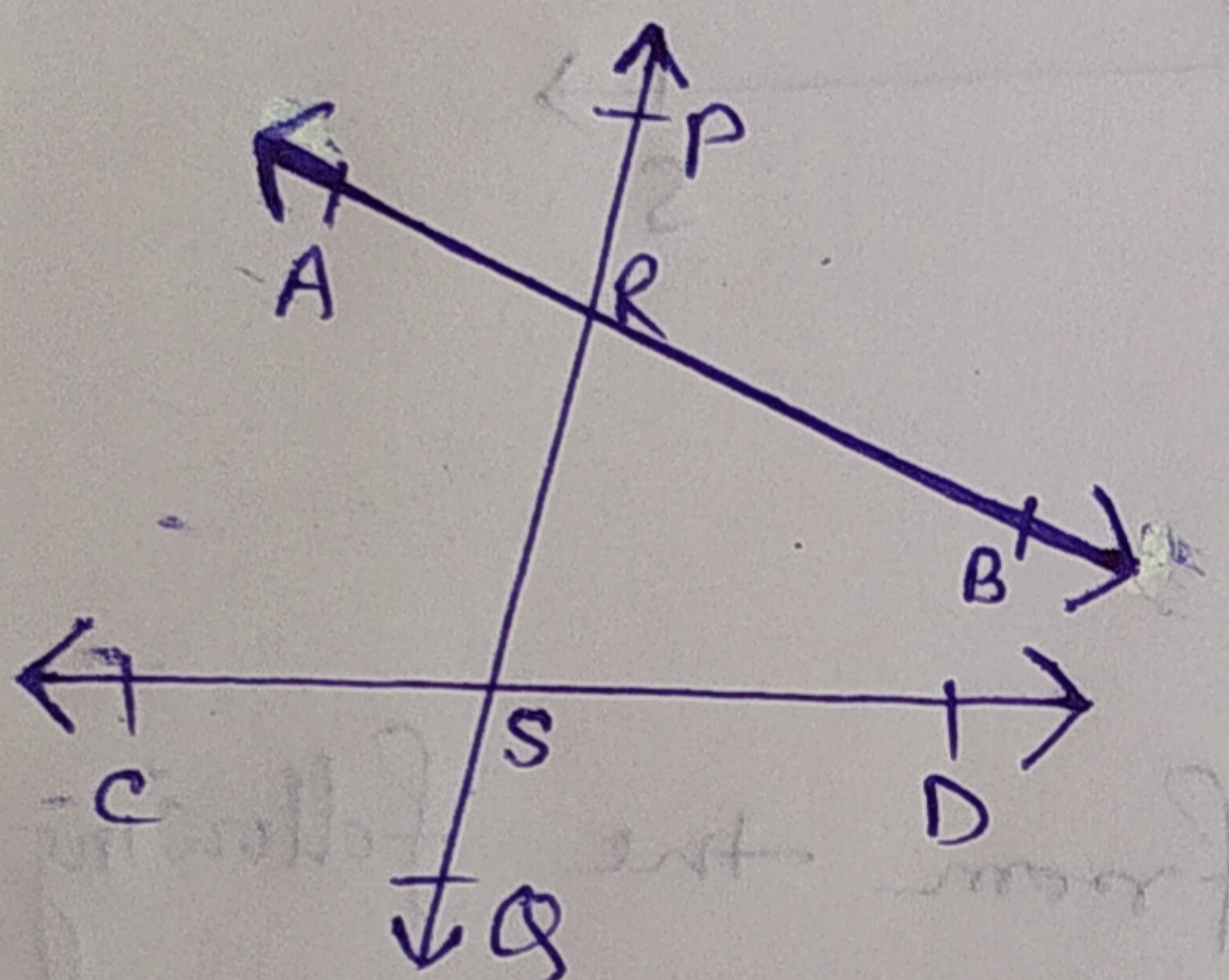


WORKSHEET - 3

- 1) If $AB \parallel CD$ and PQ is transversal and it intersect AB and CD at point R and S respectively and $\angle ARP = 80^\circ$, then find $\angle ARS$, $\angle BRS$, $\angle DSQ$



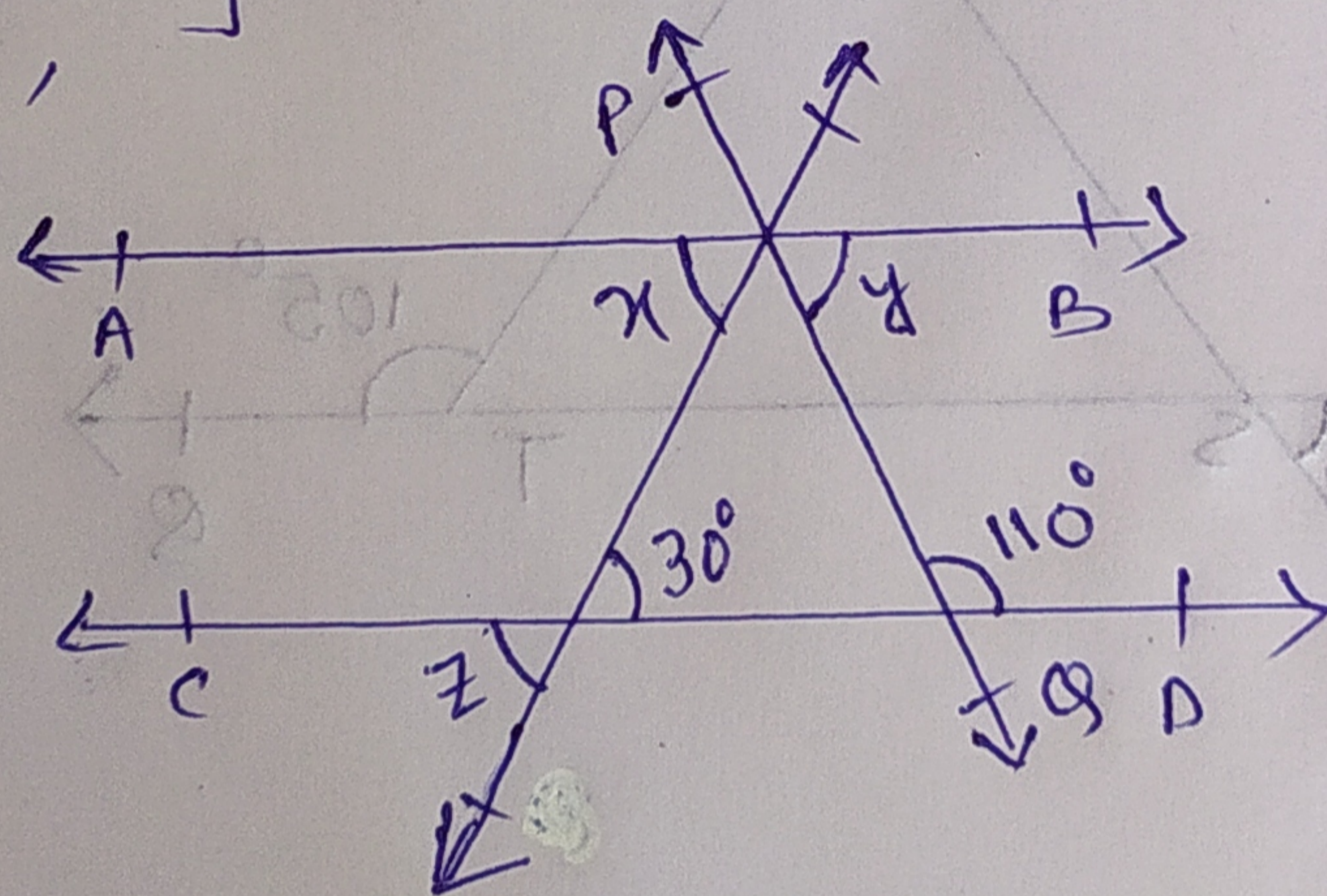
2)



Hence find the alternate interior angle of $\angle BRS$ and also find alternate exterior angle of $\angle BRP$.

3)

In fig, find the value of x, y, z . if $AB \parallel CD$

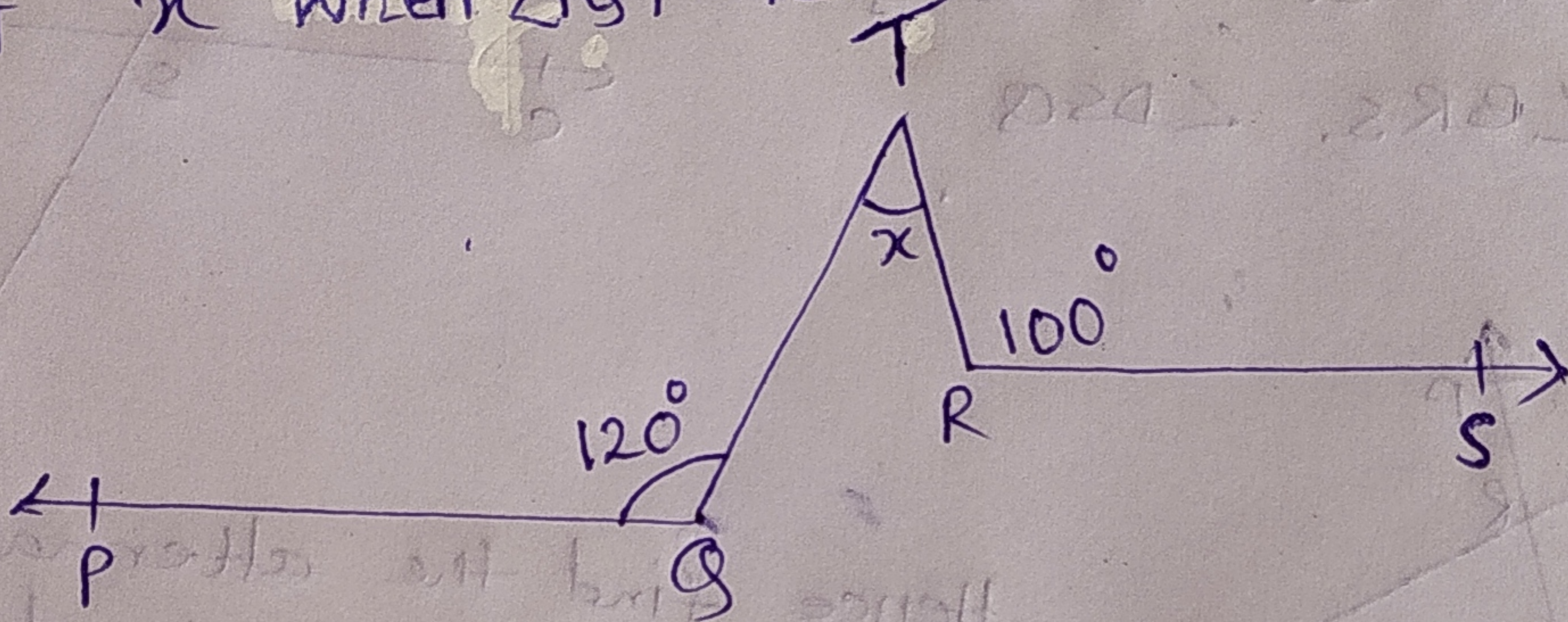


4) State angle sum property of triangle.

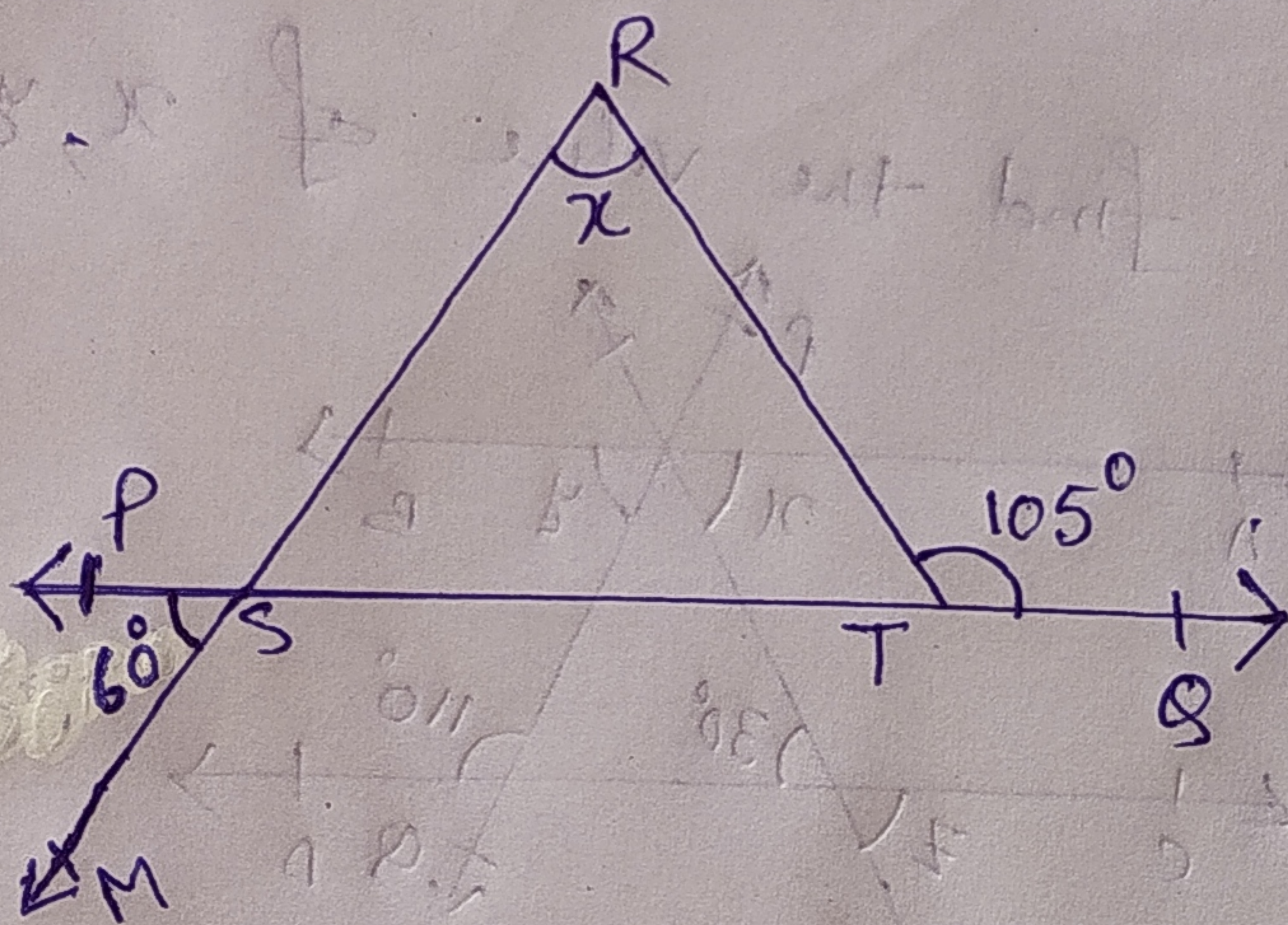
5) State linear pair of angles property when a straight line standing on other line.

6) Prove that sum of three interior angles of a triangle is 180° . (using the linear pair of angles property)

7) In fig $PQ \parallel RS$, hence find the value of x when $\angle PQT = 120^\circ$ and $\angle TRS = 100^\circ$



8) Find the value of x from the following figure



9) Define adjacent angles with example.

10) Using angle sum property prove that each angle of equilateral triangle is 60° .