Delhi Public School, Jammu

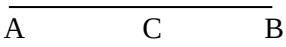
Session- (2019-20)

ASSIGNMENT -III

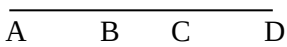
Subject: Mathematics

Topics: Euclid Geometry

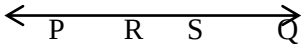
1. Prove that two distinct lines can not have more than one point in common.
2. Define 5^{th} postulate with figure.
3. Solve the equation a-15 = 25 and state which axiom do you use here.
4. If a point C lies between two points A and B such that AC=BC, then prove that AC=AB/2, explain by drawing the figure.
5. In the given figure If C is the mid-point of line segment AB, and then prove that every line segment has one and only one mid-point.



6. Does Euclid's fifth postulate imply the existence of parallel line? Explain.
7. If $x + y = 10$ and $y = z$, then show that $x + z = 10$.
8. In a given figure, if AB=CD, then prove that AC=BD.



9. In the figure given below, if PS=RQ, then prove that PR = SQ.



10. In a figure given below, if QX = $\frac{1}{2}$ XZ and QX = PX , then show that XY= XZ.