

DELHI PUBLIC SCHOOL, JAMMU

ASSIGNMENT (2017-18)

Sub: Maths

CLASS-X

1. IF $A(-3,5)$, $B(-2,-7)$, $C(1,-8)$ and $D(6,3)$ are the vertices of a quadrilateral ABCD, Find its area.
2. $A(4,-6)$, $B(3,-2)$ and $C(5,2)$ are the vertices of triangle ABC. AD is its median. Prove that the median AD divides Triangle ABC into two triangles of equal areas.
3. Prove that the points $(7,10)$, $(-2,5)$ and $(3,-4)$ are the vertices of an isosceles right triangle.
4. Find the value of P for which the points $(3p+1,p)$, $(p+2,p-5)$ and $(p+1,-p)$ are collinear.
5. Find the ratio in which the point $P(x,2)$ divides the line segment joining the points $A(12,5)$ and $B(4,-3)$. Also find the value of x.