The City School

Boys Campus North Nazimabad

Worksheet 2

Topic: Coordinate Geometry

Q1: A is the point (-1 , 0) and B is the point (2, 6). Find

   a) The coordinates of the midpoint of AB.   (1)
   b) The gradient of the line AB.   (1)
   c) The equation of the line parallel to AB, through the point (0, 4)   (2)

Q2: a) The points A and B are (-2 , 1). Calculate

   i)   The gradient of the line AB.   (1)
   ii)   The equation of the line through A and B.   (2)

   b) The point C and D are (4,5) and (p, q) respectively.

   i) Write down, in terms of p and q, the coordinates of the midpoint of CD.   (1)

   ii) Given that the midpoint of CD is (7, 1), find the coordinates of D.   (2)