Coordinate geometry

Mid-point Formula- Worksheet

- 1. Find the mid-point of line segment joining the points (-2,-2) and (2,-4).
- 2. Find a point R which is equidistant from the points P(-5,4) and Q(-1,6) and lies on the line segment joining PQ
- 3. If P (2,p) is the midpoint of the line segment joining the points A(6,-5) and B(-2,11), find the value of p.
- 4. Find the coordinates of the points which divide the line segment joining the A (-2, 2) and B (2, 8) into four equal parts.
- 5. Prove that PQRS is a parallelogram where P (4, 5), Q (7, 6), R (4, 3) and (1, 2).
- 6. If A (2, 2), B (-4, 4) and C(5,-8) are the vertices of a triangle, the find the length of the median through vertex C.
- If the midpoint of a line segment joining A(x/2, y+1/2 and B(x+1,y-3)is C(5,-2) find x and y.
- 8. If (1,2), (4,y), (x,6)and (3,5)are the vertices of a parallelogram taken in order, find the values of x and y.
- 9. For the triangles with vertices A(-2, -3), B(6,-3)and C(4,5) prove that the length of the line segment joining the midpoints of the sides AC and BC is half the length of AB.
