

6A Mid-Points of Line Segments

1. Find the midpoint of this pair of points:

a) $(2,3)$ and $(6,9)$

b) $(2a, -4b)$ and $(7a, 8b)$

2. AB is a diameter of a circle, where A and B are the coordinates $(-3,8)$ and $(5,4)$ respectively. Find the coordinates of the centre of the circle.

3. PQ is a diameter of a circle, centre $(2,-2)$. Given that P is $(8,-5)$, find the coordinates of Q.