

Finding the centre of a circle

A LEVEL LINKS

Scheme of work: 2a. Straight-line graphs, parallel/perpendicular, length and area problems

Practice question

- 1** The line segment AB is a diameter of a circle. Find the coordinates of the centre of the circle for the following:
- a** $A(1, 2)$ $B(5, 6)$
 - b** $A(2, 1)$ $B(8, 7)$
 - c** $A(-1, 2)$ $B(5, 3)$
 - d** $A(4, -5)$ $B(5, 3)$
 - e** $A(4, 4)$ $B(15, 6)$
 - f** $A(-3, -2)$ $B(-9, -10)$

Answers

- 1**
- a** $(3, 4)$
 - b** $(5, 4)$
 - c** $(2, 2.5)$
 - d** $(4.5, -1)$
 - e** $(9.5, 5)$
 - f** $(-6, -6)$