Lower 6 Chapter 6

Circles

Chapter Overview

1. Perpendicular bisector recap

2. Equations of circles

3. Intersections of lines and circles

4. Chords, tangents and perpendicular bisectors

5. Circumscribing Triangles



Perpendicular bisectors and mid-points



Example:

Find the equation of the perpendicular bisector of A (2,5) and B (6,7).

Test Your Understanding:

1. Find the perpendicular bisector of the line $AB$ where $A$ and $B$ have the coordinates:

1. $A\left(4,7\right), B\left(10,17\right)$

2. A line segment $AB$ is the diameter of a circle with centre $\left(5,-4\right)$. If $A$ has coordinates $\left(1,-2\right)$, what are the coordinates of $B$?

Exercise 6A/B Page 115 - 117