

(C2-4.1a) Name:

### Homework Questions 1 – Midpoint of a Line

1. If A (9,15) and B (13,21). Find the midpoint of the line AB

(11,18)

2. If CD is the diameter of a circle, where C(2,6) and D (8,14) respectively. Find the coordinates of the centre of the circle.

(5,10)

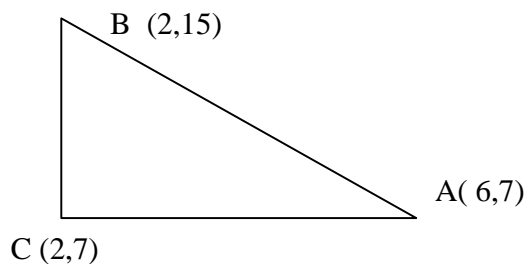
3. If AB is the diameter of a circle and A(a, 4b) and B(3a, 3b+1) Find the value of a and b given that the centre of the circle is (4,11)

A=2 b=3

4. The line RS is a diameter of a circle centre (0,4). Given R is (3,10), find the coordinate of S

(-3, -2)

5. Look at the diagram below. Find the midpoint of AB



(4,11)