- 2. In an Argand diagram, the points A and B are represented by the complex numbers -3 + 2i and 5 - 4i respectively. The points A and B are the end points of a diameter of a circle C.
 - (a) Find the equation of C, giving your answer in the form

$$|z-a|=b$$
 $a\in\mathbb{C},\ b\in\mathbb{R}$

The circle D, with equation |z-2-3i|=2, intersects C at the points representing the complex numbers z_1 and z_2

(b) Find the complex numbers z_1 and z_2

(3)