Coordinate geometry – AS Mathematics P1

1. June/20	AB is a diameter of a circle where A is (1, 4) and B is (7, -2)	
(a)	Find the coordinates of the midpoint of AB.	[1 mark
(b)	Show that the equation of the circle may be written as	
	$x^2 + y^2 - 8x - 2y = 1$	[4 marks

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The circle has centre C and crosses the x-axis at points D and E.

(c)

Find the exact area of triangle DEC.	[4 r