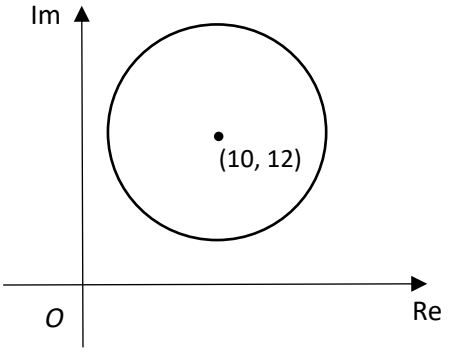
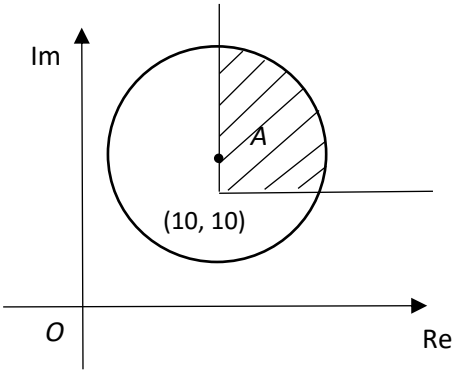
Question	Scheme	Marks	AOs
3(a)		M1	1.1b
		A1	1.1b
		(2)	
(b)		B1	1.1b
		B1ft	1.1b
		(2)	
(c)	$8^2 - 2^2 = h^2 \Rightarrow h = ...$	M1	3.1a
	$h = 2\sqrt{15}$	A1	1.1b
	Triangle area $= \frac{1}{2} \times 2 \times 2\sqrt{15}$	M1	2.1
	Sector area $= \frac{1}{2} \times 8^2 \times \left(\pi - \tan^{-1}\left(\sqrt{15}\right)\right)$ or $\frac{1}{2} \times 8^2 \times \left(\pi - \cos^{-1}\left(\frac{1}{4}\right)\right)$	M1	3.1a
	Total area $= \frac{1}{2} \times 8^2 \times \left(\pi - \tan^{-1}\left(\sqrt{15}\right)\right) + \frac{1}{2} \times 2 \times 2\sqrt{15}$ $= 66.1$	A1	1.1b
		(5)	
			(9 marks)

Notes

(a) M1: A circle drawn
A1: A circle entirely in the first quadrant with the centre marked at (10, 12)
(b) B1: Correct pair of rays added to their diagram
B1ft: Area between their rays and within the circle shaded
(c) M1: Correct strategy to find the base (or angle) of the triangular part
A1: Correct length or angle
M1: Correct method for the area of the triangle
M1: Correct strategy for the area of the sector
A1: Correct answer (awrt 66.1)