Question	Answer	Marks	Partial Marks
11	$\frac{dS}{dt} = \frac{dS}{dr} \times \frac{dr}{dt}$ or $\frac{dS}{dr} = 6$ soi	**B1**	
	$S = 2\pi r(4r)$ or $8\pi r^2$	**B1**	
	$16\pi r = 6$	**M1**	**FT** *their* $S = k\pi r^2$ with k a positive integer to give $2k\pi r = 6$
	$r = \frac{6}{16\pi}$ oe, isw	**A1**	
	$S = \frac{9}{8\pi}$ oe, isw	**A1**	

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