Question	Answer	Marks	Guidance
9(b)(ii)	$\frac{1}{2} \times 5^2 \times$ *their* 1.85	**M1**	**FT** *their* 1.85 providing it is less than 2π
	Correct plan e.g. $\left[2 \times \frac{1}{2} \times\right] 5^2$ (*their* 1.85– sin(*their* 1.85)	**M1**	**dep** previous **M1**
	22.4 or 22.21 to 22.38 nfww	**A1**	
10	$n = 7$ soi	**B1**	
	$5 \times \frac{7 \times 6}{2} \times 2^5 \times a^2 = 30240$ oe	**B1**	
	$5 \times 7 \times 2^6 \times a = b^2$	**B1**	
	$a = 3$ only, nfww	**B1**	
	$b = \pm\sqrt{6720}$ oe, isw, nfww	**B1**	
			If first **B1** only scored then **SC1** for $a = 3\sqrt{5}$ or $\sqrt{45}$ or 6.71 or 6.708[2…] only and **SC1** for $b = \pm\sqrt{1344\sqrt{5}}$ or ±54.8[2…]
11(a)	Correct use of $\pi r^2 h = 330$ to find an expression that can be used to eliminate h e.g. $h = \frac{330}{\pi r^2}$ or $\pi r h = \frac{330}{r}$	**M2**	**M1** for $\pi r^2 h = 330$ soi
	Correct substitution and completion to given answer e.g. $2\pi r^2 + 2\pi r \times \frac{330}{\pi r^2} = 2\pi r^2 + \frac{660}{r}$	**A1**	