

10	(a)	$\frac{1}{2} \times 6^2 \times \theta$	B1	1.2	Correct area of sector soi	<p>Could be part of attempt at area of segment</p> <p>Allow unsimplified, inc $\pi \times 6^2 \times \frac{\theta}{2\pi}$</p>
		$\frac{1}{2} \times 6^2 \times (\theta - \sin \theta) = 7.2$	M1	1.1	Attempt area of segment and equate to 7.2	<p>Any equivalent method eg sector area = triangle area + 7.2</p> <p>Correct formula for area of a triangle</p> <p>Area of sector must be $(\frac{1}{2}) \times 6^2 \times \theta$</p>
		$\theta - \sin \theta = \frac{7.2}{18} = 0.4$	A1	2.1	Rearrange to obtain given answer	<p>At least one line of working needed after equating to 7.2</p>
		$\theta = 0.4 + \sin \theta$	AG			
			[3]			