

Question		Answer	Marks	AOs	Guidance
5		<p>DR</p> <p>Radius = $\sqrt{10}$</p> $\cos C = \frac{10 + 10 - (7 - 1)^2}{2 \times \sqrt{10} \times \sqrt{10}}$ <p>$C = 2.50$ (3sf)</p> $\text{Area} = \frac{1}{2} \times (\sqrt{10})^2 \times 2.50 - \frac{1}{2} \times (\sqrt{10})^2 \times \sin 2.50$ <p>Area = 9.49</p>	<p>B1</p> <p>M1</p> <p>A1</p> <p>M1</p> <p>A1</p> <p>[5]</p>	<p>1.1</p> <p>3.1a</p> <p>1.1</p> <p>3.1a</p> <p>1.1</p>	<p>Or use right angled triangle:</p> <p>M1 for $\cos x = \frac{3}{\sqrt{10}}$ and</p> $\frac{1}{2}C = \frac{\pi}{2} - \cos^{-1}\left(\frac{3}{\sqrt{10}}\right)$