

4	(a)	$\cos \text{BAC} = \frac{5^2 + 9^2 - 10^2}{2 \times 5 \times 9}$ $= \frac{1}{15}$	<b>M1</b>  <b>A1</b> <b>[2]</b>	<b>1.1a</b>  <b>1.1</b>	Oe  Fraction must be seen in lowest terms isw 86.2° found	Do not allow for a different angle found
4	(b)	$\sin \text{BAC} = \sqrt{1 - \cos^2 \text{BAC}} \quad \left[ = \frac{4\sqrt{14}}{15} \right]$ $\text{Area} = \frac{1}{2} \times 5 \times 9 \times \sin \text{BAC}$ $= 6\sqrt{14} \text{ cm}^2$	<b>B1</b>  <b>M1</b> <b>A1</b> <b>[3]</b>	<b>3.1a</b>  <b>1.1a</b> <b>1.1</b>	FT their (a)  Allow if value used for their angle Cao. Must be from exact working Condone missing units	Use of $\frac{1}{2} \times 5 \times 9 \times \sin 86^\circ$ or similar, using their value for another angle found B0 M1 A0