

Q	Marking instructions	AO	Marks	Typical solution
3	Multiplies the area of their triangle by 20 and equates to 500 PI by 25 or $\sin A = \frac{5}{6}$	1.1a	M1	$\text{Area of triangle} = \frac{500}{20} = 25$ $\frac{1}{2} \times 10 \times 6 \times \sin A = 25$ $\sin A = \frac{5}{6}$ $A = 56.4^\circ$ $\text{obtuse angle} = 180 - 56.4 = 124^\circ$
	Uses $\frac{1}{2}ab \sin C$ with 6 and 10 PI by $30 \sin A$	1.1b	B1	
	Solves equation of the form $\sin A = k$ $0 < k < 1$	1.1a	M1	
	Obtains AWRT 124°	3.2a	A1	
	Question 3 Total		4	