Question		Working	Answer	Mark	Notes	
19		$\frac{BD}{\sin 97} = \frac{9.3}{\sin 58}$ $BD = \frac{9.3}{\sin 58} \times \sin 97$ (= 10.8846..) 0.5 × '10.88.' × 11.2 × sin47 (= 44.57.....) 0.5 × '10.88..' × 9.3 × sin25 (=21.39.....) or 0.5 × '4.63458 …' × 9.3 × sin97 (=21.39.....)	66.0	5	M1 M1 M1 M1 A1	 Complete method to find area *BCD* Complete method to find area *ABD* Allow 65.9 – 66.1
20	(a)	$3(x^2 - 4x) + 7$ or $3\left(x^2 - 4x + \frac{7}{3}\right)$ $3((x-2)^2 - 4) + 7$ or $3\left((x-2)^2 - 4 + \frac{7}{3}\right)$ or $3(x-2)^2 - 12 + 7$	$3(x-2)^2 - 5$	3	M1 M1 A1	or expanding $a(x^2 + 2bx + b^2) + c$ $-12 = 2ab$ or $7 = ab^2 + c$ or $a = 3$, $b = -2$, $c = -5$
	(b)		$x = 2$	1	B1	ft from (a)