1)	(a) 40		1		
	(b) 65		1		
2)					
	(a) 52		1		
	(b) 64		1		
	(c) 71		2	M1 a	ngle $CED = 19$
3)	(b) (i)	96		1	
	(ii)	48 ft		1 ft	ft 0.5 their (b)(i)
	(iii)	97 ft		1 ft	ft 145 – their (b)(ii)
	(iv)	35		1	
	(c)	$20n = 360$ oe or $\frac{180(n-2)}{n} = 16$	60 oe	M2	M1 for $9e = 180$ oe allow diagram to show this if reasonably clear
		or $180(n-2) = 8 \times 360$ oe or $8\left(\frac{360}{n}\right) = 180 - \frac{360}{n}$			or M1 for 8 × 360 or $\frac{8 \times 360}{n}$
		18 www 3		A1	
4)	(b) (i)	29		1	
	(ii)	61 ft		1 ft	ft 90 – their (i) if (i) is acute
	(iii)	61 ft		1 ft	ft their (ii) if their (ii) is acute, but can recover
	(iv)	119 ft		1 ft	ft 180 – their (iii)
	(c) (i)	20		1	
	(ii)	110		3	M1 for adding 6 angles going up 4 each time
					M1 (indep) for 720 seen and not spoiled $(6A + 60 = 720 \text{ o.e. scores M2})$
-,					
5)	(a) (Angles in) same segment			1	Allow (angles on) the same arc
	0	b) (i) 100 (ii) 43		1 1	
		(iii) 3		2	B1 <i>OBC</i> or <i>OCB</i> = $\frac{1}{2}(180 - 86) (= 47)$

6)					
	(a) 66°		2	M1 for 90° clearly identified as A	
	(b) 33°	2	1		
	(c) 123°			B1 for <i>OBA</i> or <i>OAB</i> = 57°	
7	(a) 72		1		
	(b) 36		1		
	(c) 54		2ft	ft 90 – (b) M1 $POQ = 108$	
8)			1		
0)	(a)	35		1	
	(b)	55		1ft	90 - (a) but $b > 0$
	(c)	55		1ft	= (b)
	(d)	125		1ft	180 – (c)