22		eg $(AD =)\sqrt{6^2+6^2-2\times6\times6\times\cos(50)}$ $(= 5.07\ldots)$**or** $2 \times 6\sin25$ (=5.07...) **or** $\frac{6\sin50}{\sin65}(= 5.07...)$ oe		6	M1	Correct expression for *AD* ie *AD* = … or *x* = oe
		eg $6 + 6 + \sqrt{6^2+6^2-2\times6\times6\times\cos(50)}$ or 12 +"5.07…" (=17.0)7... or 17.1)			M1	A **correct** statement of perimeter of triangle *OAD*
		eg (arc *BC*=) $\frac{50}{360}\times\pi\times2\times(6+x)$ oe			M1	A correct statement for arc *BC* (condone missing brackets around (6 + *x*) for this mark only)
		eg $2\times"17.1"=12+2x+\frac{50}{360}\times\pi\times2\times(6+x)$ oe			M1	dep on M3 for a correct equation for *x*
		eg $2\times17.1-12-\frac{30}{18}\pi=2x+\frac{5x}{18}\pi$			M1	isolating terms in *x* in a correct equation
			5.89		A1	5.88 – 5.89
						Total 6 marks

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