12	$\cos BAD = \frac{8}{14}$ **or** $\sin ABD = \frac{8}{14}$ **or** $\sin ABD = \frac{8\sin 90}{14}$ **or** $(BD =) \sqrt{14^2 - 8^2} \left(= \sqrt{132} = 2\sqrt{33} = 11.4(89...)\right)$		4	M1
	$BAD = \cos^{-1}\left(\frac{8}{14}\right)$ (= 55.(15…))**or** $\cos^{-1}\left(\frac{14^2 + 8^2 - "11.489"^2}{2\times 14\times 8}\right)$ $BAD = \sin^{-1}\left(\frac{"11.489..."}{14}\right)$ (= 55.(15…)) **or** $BAD = \tan^{-1}\left(\frac{"11.489..."}{8}\right)$(= 55.(15…)) **or** $BAD = 180 - 90 - \sin^{-1}\left(\frac{8}{14}\right)$(= 180 − 90 − 34.8... = 55.(15...) oe **or** CAD = 180 – 38 – $\sin^{-1}\left(\frac{8}{14}\right)$ – 90 (= 180 – 38 – 34.8 – 90 = 17.2)			M1
	$\tan("55.15..." - 38) = \frac{CD}{8}$ oe eg $\tan 17.2 = \frac{CD}{8}$ $\frac{CD}{\sin(55.1... - 38)} = \frac{8}{\sin(90 - (55.1... - 38)}$ oe			M1 A correct equation with *CD* being the only unknown value
	Correct answer scores full marks (unless from obvious incorrect working)	2.47		A1 2.44 – 2.48
				Total 4 marks