Question		Working	Answer	Mark	Notes	
23		360 = (10 x 10) + 4 x 0.5 x 10 x "*h*" oe *h* = 13			M1 A1	Finding the perpendicular height of a triangular face
		AC = $\sqrt{13^2 + 5^2}$ = (13.93 or √194) or AO = $\sqrt{13^2 - 5^2}$ = (12) or OC = ($\sqrt{10^2 + 10^2}$) ÷ 2 = (7.07 or 5√2) or EC (oe) = $\sqrt{10^2 + 10^2}$ = (14.14 or 10√2)			M2	Finding the accurate length of two sides relevant to finding correct angle. M2 for two sides found or M1 for one side. 1dp rounded or truncated.
		$tan^{-1}\left(\frac{12}{7.07}\right)$ or $cos^{-1}\left(\frac{7.07}{13.93}\right)$ or $sin^{-1}\left(\frac{12}{13.93}\right)$ or cos^{-1} $\left(\frac{13.93^2 + 7.07^2 - 12^2}{2 \text{ x } 13.93 \text{ x } 7.07}\right)$ or cos^{-1} $\left(\frac{13.93^2 + 14.14^2 - 13.93}{2 \text{ x } 13.93 \text{ x } 14.14}\right)$	59.5°		M1 A1	A correct trigonometric expression to find correct angle Accept $\tan\theta = \left(\frac{12}{7.0}\right)$ etc Accept 59.4° – 59.7°
						Total 6 marks