Question	Working			Answer	Mark	Notes
24	**To find *EQ*** eg $MQ = 0.5$ (= AQ) $\frac{0.5}{\cos 80}\left(=2.87(938..)\right)$ eg $MQ = x$ (= AQ) $\frac{x}{\cos 80}\left(=5.75..x\right)$ NB cos80 = sin10	**To find *EM*** eg $MQ = 0.5$ (= AQ) $0.5\tan 80\left(=2.83(564..)\right)$ eg $MQ = x$ (= AQ) $x\tan 80\left(=5.67..x\right)$ NB $\tan 80 = \frac{1}{\tan 10}$	**To find *EQ*** eg $EM = y$ $\frac{y}{\sin 80}\left(=1.01..y\right)$ **To find *MQ* (= *AQ*)** eg $EQ = h$ $h\cos 80\left(=0.173..h\right)$		4	M1 Use of a value for the side *AB* eg 1 or 2*x* or any value etc or Let $EM = y$ or any value or $EQ = h$
	To find *EA*² eg $AQ = 0.5$ (= MQ) $"2.87.."^2+0.5^2$ $\left(=8.54(08..)\right)$ eg $AQ = x$ (= MQ) $x^2+"\left(\frac{x}{\cos 80}\right)"^2$	**To find *AM*** eg $MQ = 0.5$ (= AQ) $\sqrt{0.5^2+0.5^2}$ $\left(=\frac{\sqrt{2}}{2}=0.707(10..)\right)$ eg $MQ = x$ (= AQ) $\sqrt{x^2+x^2}\left(=\sqrt{2x^2}=x\sqrt{2}\right)$	**To find *MQ* (= *AQ*)** eg $EM = y$ $\frac{y}{\tan 80}\left(=0.176..y\right)$ **To find *EA*²** eg $EQ = h$ $h^2+"(h\cos 80)"^2$			M1
	To find *EA* eg $AQ = 0.5$ (= MQ) $\sqrt{"2.87.."^2+0.5^2}$ $\left(=\sqrt{8.54(08..)}\right)$ or eg $AQ = x$ (= MQ) $\sqrt{x^2+"\left(\frac{x}{\cos 80}\right)"^2}\left(=5.84..x\right)$	**To find *EA*** eg $AQ = 0.5$ (= MQ) $\sqrt{"2.83.."^2+"0.707.."^2}$ $\left(=\sqrt{8.54(08..)}\right)$ eg $AQ = x$ (= MQ) $\sqrt{"(x\tan 80)"^2+"\left(x\sqrt{2}\right)"^2}$ $\left(=5.84..x\right)$	**To find *EA*** eg $EM = y$ $\sqrt{"\left(\frac{1}{\sin 80}\right)"^2+"\left(\frac{1}{\tan 80}\right)"^2}$ $\left(=1.03..y\right)$ [= 1.03.. × AQ × tan80] eg $EQ = h$ $\sqrt{h^2+"(h\cos 80)"^2}\ \left(=1.01..h\right)$ [= 1.01.. × $\frac{0.5}{\cos 80}$]			M1
Working not required, so correct answer scores full marks (unless from obvious incorrect working)				2.92		A1 awrt 2.92
						Total 4 marks