22	(a)	$\sqrt{4^2+9^2+15^2}\left(=\sqrt{322}=17.9(443...)\right)$ or $\sqrt{15^2+4^2}\left(=\sqrt{241}=15.5(241...)\right)$ **and** $\sqrt{9^2+\left("\sqrt{241}"\right)^2}\left(=\sqrt{322}=17.9(443...)\right)$		2	M1
			17.9		A1 awrt 17.9
	(b)	$(UR=)\,42\tan 30$ $(=14\sqrt{3}=24.2(487\ldots))$ or $(UR=)\dfrac{42\times\sin 30}{\sin(90-30)}$ $(=14\sqrt{3}=24.2(487\ldots))$		3	M1
		$\tan(UMR)=\left(\dfrac{"24.248..."}{42\div 2}\right)$ or $\tan(UMR)=\left(\dfrac{"24.248..."}{21}\right)$ or $\tan(UMR)=\left(\dfrac{"14\sqrt{3}"}{21}\right)$ or $(UM=)\sqrt{\left(\dfrac{42}{2}\right)^2+\left("14\sqrt{3}"\right)^2}\left(=7\sqrt{21}=32.0(780...)\right)$ **and** $\sin(UMR)=\left(\dfrac{"14\sqrt{3}"}{"7\sqrt{21}"}\right)$ or $\cos(UMR)=\left(\dfrac{21}{"7\sqrt{21}"}\right)$			M1
		Correct answer scores full marks (unless from obvious incorrect working)	49.1		A1 awrt 49.1
					Total 5 marks