

Question			Answer	Marks	AO	Guidance
2	(a)		$(\overrightarrow{OM} =) 0.5i + 4j$	B1 [1]	1.1	Or column vector equivalent (not coordinates)
2	(b)		$(\overrightarrow{AB} =) -3i + 2j$ $3^2 + 2^2$ (= 13) Mag = $\sqrt{13}$	B1 M1 A1 [3]	1.1a 1.1 1.1	soi, condone $3i - 2j$ FT their $\overrightarrow{AB}$ (need not be labelled but do not give this mark for finding the magnitude of $\overrightarrow{OA}$, $\overrightarrow{OB}$, or $\overrightarrow{OM}$) May be implied by correct answer (including inexact 3.606...) cao but isw further work (e.g. writing as a decimal)
2	(c)		$\tan^{-1}\left(\frac{3}{2}\right)$ = 56.3°	M1 A1 [2]	1.1 1.1	or $\cos^{-1} \frac{2}{\sqrt{13}}$ or $\sin^{-1} \frac{3}{\sqrt{13}}$ or correct sine/cosine rule setup for θ (0.98279... rads)