2	(a)	Express $3 \sin x - 4 \cos x$ in the form $R \sin(x - \alpha)$, where $R > 0$ and $0^{\circ} < \alpha < 90^{\circ}$. Give value of α correct to 4 significant figures.	[3]
	(b)	Hence solve the equation $3 \sin x - 4 \cos x = 2$ for $0^{\circ} < x < 90^{\circ}$, giving your answer corresponds a significant figures.	ect to