<u>Trigonometry – 2022 A2 June</u>

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March/2022/Paper_9709/32/No.5 The angles α and β lie between 0° and 180° and are such that

 $\tan(\alpha + \beta) = 2$ and $\tan \alpha = 3 \tan \beta$.

Find the possible values of α and β .	[6]
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Solve the equation $2 \cot 2x + 3 \cot x = 5$, for $0^{\circ} < x < 180^{\circ}$.	5]
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3.	June/2022/Paper_9709/32/No.2 Solve the equation $3\cos 2\theta = 3\cos \theta + 2$, for $0^{\circ} \le \theta \le 360^{\circ}$.	[:
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4.	June/2022/Paper_9709/33/No.2			
	Solve the equation $\cos(\theta - 60^\circ) = 3\sin\theta$, for $0^\circ \le \theta \le 360^\circ$.	[5]		
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