Question	Answer	Marks	Guidance
	Use correct trigonometric formulae to form an equation in $\tan x$	*M1	e.g. $\frac{1-\tan^2 x}{\tan x}+\frac{3}{\tan x}=5$
	Obtain a correct linear equation in any form	A1	$1-\tan^2 x+3=5\tan x$
	Reduce equation to a 3-term quadratic	A1	$\tan^2 x+5\tan x-4=0$, or 3-term equivalent
	Solve a 3-term quadratic in tan x and obtain a value of x	DM1	
	Obtain answer, e.g. $x = 35.1°$	A1	
	Obtain second answer, e.g. $x = 99.9°$, and no other in $(0°, 180°)$	A1	Ignore answers outside $(0°, 180°)$. Treat answers in radians $(0.612, 1.74)$ as a misread.
	Alternative method for question		
	Use correct formulae for $\sin 2x$ and $\cos 2x$ to form an equation in $\sin x$ and $\cos x$	*M1	
	Obtain $4\frac{\cos x}{\sin x}-\frac{\sin x}{\cos x}=5$	A1	
	Reduce equation to a 3-term quadratic	A1	$\tan^2 x+5\tan x-4=0$, or 3-term equivalent
	Solve a 3-term quadratic in tan x and obtain a value of x	DM1	
	Obtain answer, e.g. $x = 35.1°$	A1	
	Obtain second answer, e.g. $x = 99.9°$, and no other in $(0°, 180°)$	A1	Ignore answers outside $(0°, 180°)$. Treat answers in radians $(0.612, 1.74)$ as a misread.
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