Question	Answer	Marks	Guidance
	Separate variables correctly	B1	$\int_{-\frac{x}{1+x^2}} dx = \int_{-\frac{1}{y}}^{\frac{1}{y}} dy$ Accept without integral signs.
	Obtain term ln y	B1	
	State term of the form $k \ln (1 + x^2)$	M1	
	State correct term $\frac{1}{2}\ln(1+x^2)$	A1	OE
	Evaluate a constant, or use limits $x = 0$ , $y = 2$ in a solution containing terms $a \ln y$ and $b \ln (1+x^2)$ where $ab \ne 0$	M1	If they remove logs first the constant must be of the correct form.
	Obtain correct solution in any form	A1	e.g $\ln y + \ln \frac{1}{2} = \frac{1}{2} \ln (1 + x^2)$
	Simplify and obtain $y = 2\sqrt{1+x^2}$	A1	OE The question asks for simplification, so need to deal with $\exp(\ln())$ .
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