## <u>Logarithm and Exponential Functions – 2022 A2 Nov Math</u>

1.	Nov/2022/Paper_9709_31/No.3
	Solve the equation $2^{3x-1} = 5(3^{-x})$ . Give your answer in the form $\frac{\ln a}{\ln b}$ , where $a$ and $b$ are integers.
	.00
	100

Solve the equation $2^{3x-1} = 5(3^{1-x})$ . Give your answer in the form	$\frac{\ln a}{\ln b}$ where a and b are integers.
	.89
	,
0.0.	
***	

**2.** Nov/2022/Paper\_9709\_32/No.1

Nov/2022/Paper_9/09_33/No.1			
Find the exact value of $\int_0^{\frac{1}{4}\pi} x \sec^2 x  dx$ .	[5		
	<u>/</u>		
.89			
-00			
100			