Question	Scheme	Marks	AOs
6	$3^x = 3\sqrt{3}\left(9^{y+1}\right)$		
	$3^x = 3^{1.5} \left(3^2\right)^{y+1}$	B1	1.1b
	$3^x = 3^{1.5 + 2y + 2} \Rightarrow x = 1.5 + 2y + 2$	M1	2.1
	$y = \frac{1}{2}x - \frac{7}{4}$	A1	1.1b
		(3)	
(3 marks)			
Notes:			
B1: Writes a correct equation in powers of 3 only.			
M1: Complete process of writing a correct equation in powers of 3 only and using correct index laws to obtain an equation linking x with y without indices.			
A1: $y = \frac{1}{2}x - \frac{7}{4}$ o.e. in required form.			