

Question	Scheme	Marks	AOs
2	$x = 6t + 1, y = 5 - \frac{4}{3t}, t \neq 0$		
	$\left\{ t = \frac{x-1}{6} \Rightarrow \right\} y = 5 - \frac{4}{3\left(\frac{x-1}{6}\right)}$	M1	1.1b
		A1	1.1b
	$\Rightarrow y = 5 - \frac{4}{\left(\frac{x-1}{2}\right)} \Rightarrow y = 5 - \frac{8}{x-1} \Rightarrow y = \frac{5(x-1)-8}{x-1}$ $\Rightarrow y = \frac{5x-13}{x-1}, x \neq 1 \quad \{a=5, b=-13, k=1\}$	A1	2.1
		(3)	
Alt 1	$\left\{ t = \frac{4}{3(5-y)} \Rightarrow \right\} x = 6\left(\frac{4}{3(5-y)}\right) + 1$	M1	1.1b
		A1	1.1b
	$\Rightarrow x = \frac{8}{(5-y)} + 1 \Rightarrow (x-1)(5-y) = 8 \Rightarrow 5x - xy - 5 + y = 8$ $\Rightarrow 5x - 5 - 8 = xy - y \Rightarrow 5x - 13 = y(x-1) \Rightarrow y = \frac{5x-13}{x-1}, x \neq 1$	A1	2.1
		(3)	

(3 marks)

Question 2 Notes:

M1:	An attempt to eliminate t
A1:	Achieves a correct equation in x and y only which can be un-simplified or simplified
A1:	Uses correct algebra to show $y = \frac{5x-13}{x-1}, x \neq 1$