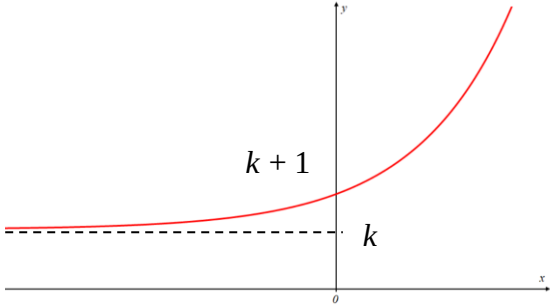


Question			Answer	Marks	AO	Guidance
5	(a)		$\log_{10}(y - k) = \log_{10} 2^x$	M1	1.1	Correct use of one of the laws of logs – award if 2^x seen or if $(y - k) = 10^{x \log 2}$
			$y = k + 2^x$	A1	1.1	LHS must be $y =$ Allow $y = k + 10^{x \log 2}$
				[2]		
5	(b)			B1	1.2	General shape correct. Positive and negative values of x should be seen used. FT their exponential (a)
				B1	1.1	y -intercept at $k + 1$ on positive y –axis. FT their exponential (a) provided in terms of k
				B1	1.1	Asymptote at k . Horizontal line need not be seen provided the intention is clear
				[3]		