Question	Answer	Marks	Partial Marks
6	$(m+1)x^2+(8-m)x+3=0$ oe, soi	**B1**	
	$(8-m)^2-4(m+1)(3)$	**M1**	
	$m^2-28m+52$ [*0] oe	**M1**	dep on previous **M1**; condone one sign error where * is = or any inequality sign
	Factorises or solves *their* 3-term quadratic expression or equation for CVs	**M1**	dep on use of b^2-4ac
	Finds correct CVs: 2, 26	**A1**	
	$2<m<26$	**A1**	Mark final answer
7(a)	$\log 5^{x-2}=\log 3+\log 2^{2x+3}$ soi	**M1**	
	$(x-2)\log 5=\log 3+(2x+3)\log 2$ oe	**M1**	dep on previous **M1**; Condone one sign or bracketing error
	$x=\dfrac{\log 3+3\log 2+2\log 5}{\log 5-2\log 2}$ soi	**A1**	
	$x=28.7$	**A1**	
7(b)	$\log_3\left(\dfrac{y^2+11}{9}\right)=\log_3(y-1)$ or $\log_3\left(\dfrac{y^2+11}{y-1}\right)=2$ oe	**B1**	
	$\dfrac{y^2+11}{9}=y-1$ or $\dfrac{y^2+11}{y-1}=9$ oe	**M1**	
	$y^2-9y+20=0$	**A1**	
	Solves *their* 3-term quadratic	**M1**	**dep** on previous **M1**
	$y=4,\ y=5$	**A1**	
8(a)	252	**B1**	