Q	Working	Answer	Mark	Notes	
25	$y=3\left(x^2-4x\right)+7$ **or** $y=3\left(x^2-4x+\frac{7}{3}\right)$ or $\frac{y-7}{3}=x^2-4x$ or $y=3(x-2)^2$.....		4	M1	for a correct equation for a first step to complete the square
	eg $y=3\left(\left(x-2\right)^2-2^2\right)+7$ **or** $y=3\left(\left(x-2\right)^2-2^2+\frac{7}{3}\right)$ **or** $y=3\left(x-2\right)^2-5$ oe or			M1	
	$\left(x-2\right)^2=\frac{y+5}{3}$ oe eg $(x-2)^2=\frac{y-7}{3}+4$ or $x-2=(\pm)\sqrt{\frac{y+5}{3}}$ oe			M1	
	Correct answer scores full marks (unless from obvious incorrect working)	$2-\sqrt{\frac{x+5}{3}}$		A1 oe	NB: note only negative square root. Must be in terms of x **any equivalent form**
	Note: Allow candidates to swap *x* and *y* when finding the inverse			**Total 4 marks**	
25 Alt	$3x^2-12x+(7-y)=0$		4	M1	for a correct first step
	$\left(x=\right)\frac{12\pm\sqrt{144-12(7-y)}}{6}$			M1	
	$\left(x=\right)2\pm\sqrt{\frac{60+12y}{36}}$ oe			M1	
	Correct answer scores full marks (unless from obvious incorrect working)	$2-\sqrt{\frac{x+5}{3}}$		A1 oe	NB: note only negative square root. Must be in terms of x **any equivalent form**
				Total 4 marks	