Question	Answer	Marks	Partial Marks
1(a)	$(x-3)^2-8$	**B2**	**B1** for $(x-3)^2+k$ where $k \neq -8$ or $a=-3$ or $(x+m)^2-8$ where $m \neq -3$ or $b=-8$
1(b)	$(3, -8)$	**B1**	**strict FT** *their a* and *b*
2	$m=\frac{9-5}{8-6}$ oe	**M1**	
	$9 =$ *their* $2(8) + c$ oe or $5 =$ *their* $2(6) + c$	**M1**	
	$\ln y = 2\ln x - 7$	**A1**	
	Correct completion to answer: $y = e^{\ln x^2 - 7} = e^{-7}x^2$ nfww	**A1**	
	Alternative $\ln y = p + q\ln x$ soi	**(B1)**	
	$m=\frac{9-5}{8-6}$ oe	**(M1)**	
	$9 =$ *their* $2(8) + c$ oe or $5 =$ *their* $2(6) + c$	**(M1)**	
	$y = e^{-7}x^2$	**(A1)**	
3(a)	$4x - 1$ *9 oe and $4x - 1$*–9 oe OR $16x^2 - 8x - 80$*0 oe soi	**M1**	where * could be = or any inequality sign
	$x > \frac{5}{2}$, $x < -2$ only; **mark final answer**	**A2**	not from wrong working **A1** for CV $\frac{5}{2}$, -2 oe If M0 then **SC1** for any correct inequality with at most one extra inequality