Question	Answer	Marks	Guidance
(a)	${2(x-4)^2}$ ${-9}$	B1 B1	OE When a and b stated give priority to marking algebraic expression.
		2	
(b)	<i>y</i> > -7	B1	Allow $f(x) > -7$ or $(-7, \infty)$ Don't allow $x > -7$.
		1	
(c)	$\left(x-4\right)^2 = \frac{y+9}{2}$	M1	2 operations correct. Allow a sign error.
	$x = 4 \left[\pm \right] \sqrt{\frac{y+9}{2}}$	M1	2 operations correct. Allow a sign error.
	$[f^{-1}(x) =]4 - \sqrt{\frac{x+9}{2}}$	A1 FT	OE FT on <i>their</i> answer to (a) i.e. $-a - \sqrt{\left(\frac{x-b}{2}\right)}$.
		3	
(d)	$fg(x) = f(2x+4) = 2(2x+4-4)^2 - 9$	M1	Allow $2(2x+4)^2 - 16(2x+4) + 23$.
	$8x^2 - 9$ only	A1	
		2	