Question	Working	Answer	Mark	Notes
19 (a)		4.5	1	B1oe $4.5, x = 4.5, x \neq 4.5$ Allow anything with $4.5, \frac{9}{2}$ or $4\frac{1}{2}$ apart from $x < 4.5, x > 4.5, x \leq 4.5, x \geq 4.5$
(b)	$(g(4)) = \frac{5}{2\times4-9}(=-5)$ **or** $5\left(\frac{5}{2\times4-9}\right)+7$ oe		2	M1
	Working not required, so correct answer scores full marks (unless from obvious incorrect working)	–18		A1
(c)	$(y =)3(x^2-4x)+.....$ **or** $y = 3(x^2-4x+.....)$ where ….can be number(s) or nothing		4	M1 **or** $3x^2-12x+(8-y)=0$ oe
	$(y =)3(x-2)^2.....$ **or** $y = 3[(x-2)^2....]$ could have: $y - 8 = 3[(x-2)^2....]$ oe			M1 **or** $(x =)\frac{12\pm\sqrt{144-12(8-y)}}{6}$ may have + rather than ±
	$(x-2)^2 = \frac{y+4}{3}$ oe or an answer of $2\pm\sqrt{\frac{4+x}{3}}$			M1 **or** $(x =)2\pm\sqrt{\frac{4+y}{3}}$ may have + rather than ±
	Working not required, so correct answer scores full marks (unless from obvious incorrect working)	$2+\sqrt{\frac{x+4}{3}}$		A1 oe eg $2+\frac{\sqrt{12+3x}}{3}$
NB: Allow candidates to swap *x* and *y* (or other letter) at any stage when finding the inverse – but the answer must be in terms of *x*				
				Total 7 marks