Q	Marking instructions	AO	Marks	Typical solution
7(a)	Obtains $\frac{1}{\sqrt{10-2x}}$ ACF	1.1b	B1	$h(x)=\frac{1}{\sqrt{10-2x}}$
	Subtotal		**1**	

Q	Marking instructions	AO	Marks	Typical solution
7(b)	Deduces $x<5$ ACF Condone incorrect set notation	2.2a	B1	$x<5$
	Subtotal		**1**	

Q	Marking instructions	AO	Marks	Typical solution
7(c)	Forms the equation y = their $h(x)$ and squares both sides of the equation to remove the square root correctly. or Forms the equation y = their $h(x)$ and rearranges to obtain an expression for $\sqrt{10-2x}$ x and y can be switched at any point.	3.1a	M1	$y=\frac{1}{\sqrt{10-2x}}$ $\sqrt{10-2x}=\frac{1}{y}$ $10-2x=\frac{1}{y^2}$ $2x=10-\frac{1}{y^2}$ $x=5-\frac{1}{2y^2}$ $h^{-1}(x)=5-\frac{1}{2x^2}$
	Obtains $10-2x=\frac{1}{y^2}$ or $5-x=\frac{1}{2y^2}$ x and y can be switched at any point.	1.1b	A1	
	Completes reasoned argument with no incorrect steps to show the given result. Must use correct notation $h^{-1}(x)$ and be consistent with use of variables. AG	2.1	R1	
	Subtotal		**3**	

	Question 7 Total		**5**	