25		$(y=)\,2(x^2-12x)+7$ **or** $(y=)\,2\left(x^2-12x+\frac{7}{2}\right)$ **or** $\frac{y-7}{2}=x^2-12x$	$(x=)\,2(y^2-12y)+7$ **or** $(x=)\,2\left(y^2-12y+\frac{7}{2}\right)$ **or** $\frac{x-7}{2}=y^2-12y$			M1 for a correct first step in order to complete the square For each method mark the function must be correct
		eg $(y=)\,2\left((x-6)^2-6^2\right)+7$ **or** $(y=)\,2\left((x-6)^2-6^2+\frac{7}{2}\right)$ **or** $(y=)\,2(x-6)^2-65$ oe **or** $\frac{y-7}{2}=(x-6)^2-6^2$ oe	eg $(x=)\,2\left((y-6)^2-6^2\right)+7$ **or** $(x=)\,2\left((y-6)^2-6^2+\frac{7}{2}\right)$ **or** $(x=)\,2(y-6)^2-65$ oe **or** $\frac{x-7}{2}=(y-6)^2-6^2$ oe			M1 dep on M1
		$(x-6)^2=\frac{y+65}{2}$ oe **or** $(x-6)^2=\frac{y-7}{2}+6^2$ oe	$(y-6)^2=\frac{x+65}{2}$ oe **or** $(y-6)^2=\frac{x-7}{2}+6^2$ oe			M1
		Correct answer scores full marks (unless from obvious incorrect working)		$6+\sqrt{\frac{x+65}{2}}$	4	A1 oe eg $6+\sqrt{\frac{x-7}{2}+36}$ Must be in terms of x M3A0 for $6\pm\sqrt{\frac{x+65}{2}}$ or $6\pm\sqrt{\frac{y+65}{2}}$ or $6+\sqrt{\frac{y+65}{2}}$
						Total 4 marks
Note: Allow candidates to swap *x* and *y* when finding the inverse						

25 ALT		$2x^2-24x+7-y(=0)$			M1 for a correct first step
		$(x=)\dfrac{24\pm\sqrt{576-8(7-y)}}{4}$ or $(x=)\dfrac{24+\sqrt{576-8(7-y)}}{4}$	$2\left((x-6)^2-6^2\right)+7-y(=0)$ or $2\left((x-6)^2-6^2+\dfrac{7}{2}\right)-y(=0)$		M1 dep on M1
		$(x=)6\pm\sqrt{\dfrac{y+65}{2}}$	$(x-6)^2=\dfrac{y+65}{2}$		M1
		Correct answer scores full marks (unless from obvious incorrect working)	$6+\sqrt{\dfrac{x+65}{2}}$	4	A1 oe eg $6+\sqrt{\dfrac{x-7}{2}+36}$ Must be in terms of x M3A0 for $6\pm\sqrt{\dfrac{x+65}{2}}$ or $6\pm\sqrt{\dfrac{y+65}{2}}$ or $6+\sqrt{\dfrac{y+65}{2}}$
					Total 4 marks
Note: Allow candidates to swap *x* and *y* when finding the inverse					

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