A function f is defined by $f(x) = x^2 - 2x + 5$ for $x \in \mathbb{R}$. A sequence of transformations is applied in following order to the graph of $y = f(x)$ to give the graph of $y = g(x)$.	the
Stretch parallel to the x-axis with scale factor $\frac{1}{2}$	
Reflection in the <i>y</i> -axis	
Stretch parallel to the y-axis with scale factor 3	
Find $g(x)$, giving your answer in the form $ax^2 + bx + c$, where a , b and c are constants.	[4]
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