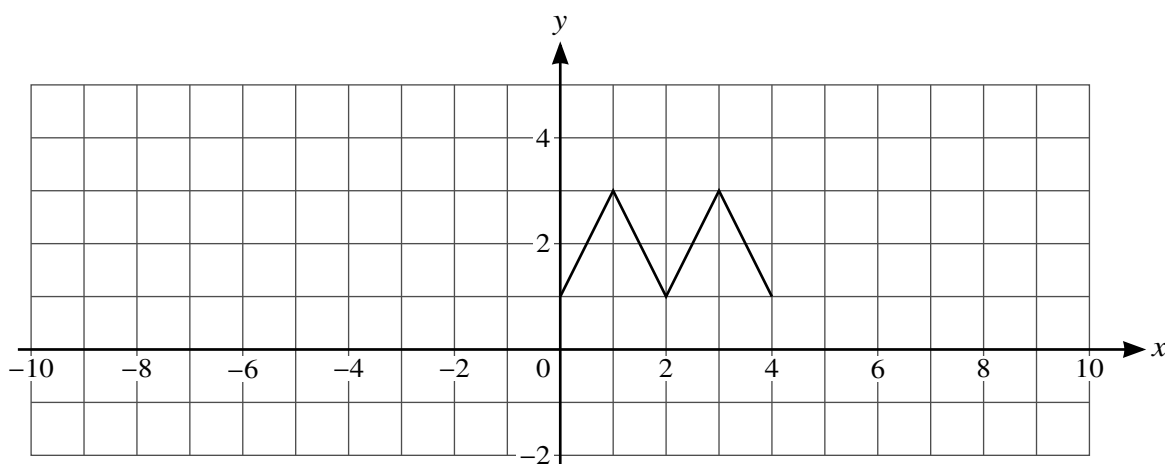


- 5** The graph with equation $y = f(x)$ is transformed to the graph with equation $y = g(x)$ by a stretch in the x -direction with factor 0.5, followed by a translation of $\begin{pmatrix} 0 \\ 1 \end{pmatrix}$.

(a) The diagram below shows the graph of $y = f(x)$.

On the diagram sketch the graph of $y = g(x)$. [3]



- (b)** Find an expression for $g(x)$ in terms of $f(x)$. [2]

[illegible]