C3 A point on the function $f(x)$ is mapped onto the image point on the function $g(x)$. Copy and complete the table by describing a possible transformation of $f(x)$ to obtain $g(x)$ for each mapping.

$f(x)$	$g(x)$	Transformation
(5, 6)	(5, −6)	$(x,y)\to(x,-y)$ this is a vertical reflection into the x-axis
(4, 8)	(−4, 8)	$(x,y)\to(-x,y)$ this is a horizontal reflection into the y-axis.
(2, 3)	(2, 12)	$(x,y)\to(x,4x)$ this is a vertical stretch by a factor of 4 about the x-axis
(4, −12)	(2, −6)	$(x,y)\to\left(\frac{x}{2},\frac{y}{2}\right)$ this is a horizontal stretch by a factor of $\frac{1}{2}$ and a vertical stretch by a factor of $\frac{1}{2}$ aswell, performed in any order.

$2=\frac{4}{2}$

$12=3\times4$

$-6=\frac{-12}{2}$