## Q1

(i) What series of transformations is equivalent to a reflection in the line $x=L$ ?
(ii) What is the effect of a reflection in the line $x=L$ on the function $y=f(x)$ ?

## Q2

What combination of transformations converts $y=2^{x}$ to
$y=2^{4 x-2} ?$

## Q3

(i) Find a series of transformations that can be applied to $y=\frac{1}{x}$ to produce $y=\frac{3 x-2}{6 x-1}$.
(ii) Sketch the curve $y=\frac{3 x-2}{6 x-1}$.

## Q4

What combination of transformations converts $y=3^{-x}$ to $y=3^{2 x-1} ?$

Q5
What happens to the graph of $y=f(x)$ when it is transformed
to: (a) $y=f(|x|)$ (b) $|y|=f(x)$

