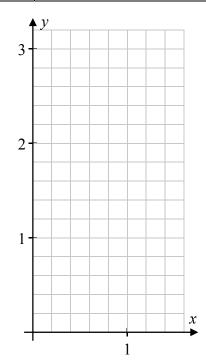
(a) (i) $f(x) = \frac{2}{e^x}$ and $g(x) = e^x - 1$, where $x \in \mathbb{R}$.

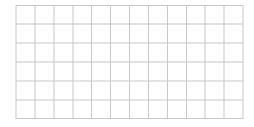
Complete the table below. Write your values correct to two decimal places where necessary.

x	0	0.5	1	ln(4)
$f(x) = \frac{2}{e^x}$				
$g(x) = e^x - 1$				

(ii) In the grid on the right, use the table to draw the graphs of f(x) and g(x) in the domain $0 \le x \le \ln(4)$. Label each graph clearly.



(iii) Use your graphs to estimate the value of x for which f(x) = g(x).



(b) Solve f(x) = g(x) using algebra.

