

Add zero in a clever way.

Use the substitution  $u = 1 + e^x$

Multiply top and bottom by  $e^{-\frac{x}{2}}$  and use some hyperbolic identities

**FURTHER  
ONLY**

Find  $\int \frac{1}{1 + e^x} dx$

Multiply top and bottom by  $e^{-x}$

Multiply by  $e^x$  and use the substitution  $u = e^x$