

$$79 \, 505$$
 Derive $\frac{e^{t}}{1+e^{t}}$

$$g(t) = \frac{(1+e^{t})(e^{t})' - e^{t}(1+e^{t})'}{(1+e^{t})^{2}} = \frac{(1+e^{t})e^{t} - e^{t}e^{t}}{(1+e^{t})^{2}}$$

$$= \frac{e^{t} + (e^{t})^{2} - (e^{t})^{2}}{(1+e^{t})^{2}} = \frac{e^{t}}{(1+e^{t})^{2}}$$

$$f(x) = \ln \left(\log_3 x\right)$$

$$f(x) = \frac{1}{\log_3 x} \cdot \frac{1}{x \ln 3} = \frac{1}{(\ln 3) \times \log_3 x}$$

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$$f(x) = \frac{1$$

 $= -\frac{1}{2} \left(\ln \left(\cos x \right) \right)^2 + C$

