

1. Use the function f and the given real number a to find $(f^{-1})'(a)$.

$$f(x) = \frac{x+6}{x-2} , \quad x > 2 , \quad a = 3$$

2. Find the derivative of the function.

(a) $y = \ln \frac{1+e^x}{1-e^x}$

(b) $y = \log_{10} \frac{x^2-1}{x}$

3. Find the integral.

$$\int \frac{2e^x - 2e^{-x}}{(e^x + e^{-x})^2} dx$$