
Quiz #2

1. Find the inverse of $f(x) = \frac{2e^x}{3 + e^x}$. [2]

2. Solve each equation for x .

a. $3^{7-3x} = 9$ [2]

b. $\ln(2x) - \ln(1 - x) = \ln 2$ [2]

3. Express $f(x) = 3 \ln(x + 2) + \ln(x + 3) - 2 \ln(x - 2)$ as a single logarithm. [2]

4. Determine the value of $\cot^2\left(\frac{25\pi}{3}\right)$. [2]