1. (3 points) Find the equation of an exponential function, \( f(x) = ca^x \), which passes through the points \((1, 10)\) and \((2, 4)\)

2. (3 points) Solve for \(x\).

\[ e^{2 \ln(x + 3)} = 4 \]
3. (2 points) Given that \( f(x) = e^{\sqrt{x-5}} \), find an equation for \( f^{-1}(x) \).

4. (2 points) Find the value of the following expression.

\[
3 \log_4 2 + \log_4 2
\]