

Name _____

- You have 15 minutes
- No calculators
- Show sufficient work

1. (4 points) Given that $f(x) = \frac{5 + 2e^x}{4 - 3e^x}$, find a formula for $f^{-1}(x)$.

2. (3 points) Determine all values of x which satisfy the equation below.

$$13 - 7x = 10e^{2\ln(1-x)}$$

3. (3 points) Determine a formula for an exponential function given that its graph goes through the points $(-3, 100)$, $(0, 20)$ and $(3, 4)$.