Name _____

- No calculators allowed.

- Show sufficient work to justify each answer.

- You have 12 minutes for this quiz.

1. (4 points) Determine a formula for an exponential function given that its graph goes through the points $(-3, 80)$, $(0, 20)$ and $(3, 5)$.

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

$$e^{3\ln(5x+8)} = 27$$

3. (3 points) Given that $f(x) = \sqrt[5]{\ln(5x+8)}$, find a formula for $f^{-1}(x)$.