

This quiz is worth 10 points, and you have 10 minutes to complete it. Show all work in detail, and circle your final answer.

Calculators are NOT allowed today.

1. (2 pts) True or False: $e^{3\ln 4} = 12$.

circle one: **TRUE** **FALSE**

2. (5 pts) Write the function $f(x) = 5^x 2^{3-x}$ in the form $f(x) = Ab^x$. Put your answers for A and b in the blanks provided.

$A =$ _____ $b =$ _____

3. (3 pts) Write the statement “the natural exponential function is continuous at $x = 0$ ” as a limit statement.

final answer: _____