- **2**. [12 points] For each equation below, solve EXACTLY for the specified variable. Show your work carefully and write your final answer on the answer blank provided.
 - **a**. [4 points] If $5e^{2t+3} = 6$, solve for t.

Answer: The exact value of t is _____

b. [4 points] If $\ln(3^x) = \ln(2^x) + 7$, solve for x.

Answer: The exact value of x is _____

c. [4 points] If $\log (w + 1) - \log (2 - w) = 2$, solve for w.

Answer: The exact value of w is _____