1. (10 points) Find the Taylor polynomial of order 2 of the function $f(x) = 4 \ln(x)$ at the point $a = 1$. 
2. (10 points) What are the first four terms (simplify) of the Taylor series for \( e^x + \frac{1}{1+x} \) centered at 0?

3. (Bonus +1) What is your favorite book?