Each problem is worth 0 points. In the event of a real quiz you would have been notified.

1. Find the local linearization of \( \sqrt{1 + x} \) near \( x = 0 \).

2. Evaluate \( \lim_{x \to 0^+} x^2 \ln x \).

3. Find the critical points and inflection points of the function \( f(x) = \frac{1}{1 + x^2} \).