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 $f(x) = \frac{1}{1+x^2}$.