

Name: _____

S.ID: _____

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Q1) If $f(x) = \ln(x + \ln x)$, find $f'(1)$.

Q2) If $\frac{d}{dx}[f(2x)] = x^3$, find $f'(x)$.

Q3) Evaluate: $\lim_{x \rightarrow 1} \frac{(\cos \pi x)^{18} - 1}{x - 1}$.