TUTORS: THIS IS A TAKE HOME QUIZ

FOR THIS QUIZ, YOUR FINAL ANSWERS MAY REQUIRE RADICALS, LOGS, e AND π .

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Find the linear approximation of $f(x) = e^{3x}$ at $x = \ln 2$. Use the approximation to estimate f(1).

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Find the linear approximation of $f(x) = \tan x$ at $x = \frac{\pi}{4}$. Use the approximation to estimate $f\left(\frac{3}{4}\right)$.

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Use an appropriate linear approximation to estimate sec1.

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Use an appropriate linear approximation to estimate $\sqrt[4]{79}$.

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