ON PRIME NUMBERS

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\[
\ln\left(\prod_{n=1}^{\infty}\left(\frac{e}{\left(1 + \frac{1}{P_n}\right)^{P_n}}\right)\right) + \frac{1}{e}\left(\prod_{n=1}^{\infty}\left(\frac{e}{\left(1 + \frac{1}{P_n}\right)^{P_n}}\right)\right) = e
\]