

6000/10000+productlog(-6000*3/10000*e^(-6000*3/10000))/3



Input:

$$\frac{6000}{10000} + \frac{1}{3} W\left(-\frac{6000 \times 3 e^{-\frac{6000 \times 3}{10000}}}{10000}\right)$$

Exact result:

$$\frac{1}{3} W\left(-\frac{9}{5 e^{9/5}}\right) + \frac{3}{5}$$

Decimal approximation:

0.439457979982059808285759196473256620107656820415391484...

Alternate form:

$$\frac{1}{15} \left(5 W\left(-\frac{9}{5 e^{9/5}}\right) + 9 \right)$$

Alternate form assuming all variables are real and positive:

0

Continued fraction:

[0; 2, 3, 1, 1, 1, 2, 3, 4, 1, 5, 1, 12, 1, 11, 1, 9, 1, 3, 1, 1, 1, 1, 1, ...]

Wolfram|Alpha: $6000/10000 + \text{productlog}(-6000 \cdot 3/10000 \cdot e^{(-6000 \cdot 3/10000)})/3$

Wolfram Functions: alternative representation:

$$\frac{6000}{10000} + \frac{1}{3} W\left(-\frac{6000 \times 3 e^{-\frac{6000 \times 3}{10000}}}{10000}\right) = \frac{6000}{10000} + \frac{1}{3} W_0\left(-\frac{18000 e^{-18000/10000}}{10000}\right)$$

Wolfram Functions: integral representation:

$$\frac{6000}{10000} + \frac{1}{3} W\left(-\frac{6000 \times 3 e^{-\frac{6000 \times 3}{10000}}}{10000}\right) = \frac{3}{5} - \frac{1}{3\pi} \int_{-\infty}^{-\frac{1}{e}} \text{Im}\left(\frac{\partial W(x)}{\partial x}\right) \log\left(1 + \frac{9}{5 e^{9/5} x}\right) dx$$