

Expand: $\ln \frac{x^2(2z^5)}{y^3}$

$$\log \sqrt[5]{z}$$

Condense: $\frac{1}{5} \log z$

2

Solve:

$$\ln(3x - 2) + \ln(x - 1) = 2 \ln x$$

Solve: $20\left(\frac{1}{2}\right)^{\frac{x}{3}} = 5$

-8

$$\text{Solve: } 3\left(5^{-x/4}\right) = 75$$

$$\ln\left(5 + \sqrt{26}\right)$$

Solve: $\frac{e^x - e^{-x}}{2} = 5$

$$-1 \pm \sqrt{17}$$

Solve:

$$\ln(x - 2) + \ln(x + 4) = 3 \ln 2$$

$$\log \frac{y^9 z^3}{x^2}$$

Condense:

$$9\log y - 5\log x + 3\log(xz)$$

$$2\ln x + \ln 2 + 5\ln z - 3\ln y$$