x^y=(1/(z**2+3))*e^(i*pi/(f-l))

NATURAL LANGUAGE MATH INPUT EXTENDED KEYBOARD EXAMPLES UPLOAD RANDOM

Assuming i is a variable | Use i as the imaginary unit instead

Input

$$x^y = \frac{1}{z^2+3} e^{i\times\pi/(f-l)}$$

Solutions Approximate forms

$$x \neq 0, \quad z = -\frac{\sqrt{1-3\,e^{\frac{f\,y\log(x)-\pi\,i-l\,y\log(x)}{f-l}}}}{\sqrt{e^{\frac{f\,y\log(x)-\pi\,i-l\,y\log(x)}{f-l}}}}$$

$$x \neq 0, \quad z = \frac{\sqrt{1-3\,e^{\frac{f\,y\log(x)-\pi\,i-l\,y\log(x)}{f-l}}}}{\sqrt{e^{\frac{f\,y\log(x)-\pi\,i-l\,y\log(x)}{f-l}}}}$$

$\log(x)$ is the natural logarithm

Solutions for the variable z Approximate form Step-by-step solution

$$z = -\sqrt{x^{-y}\,e^{(\pi\,i)/(f-l)} - 3}$$

$$z = \sqrt{x^{-y}\,e^{(\pi\,i)/(f-l)} - 3}$$

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