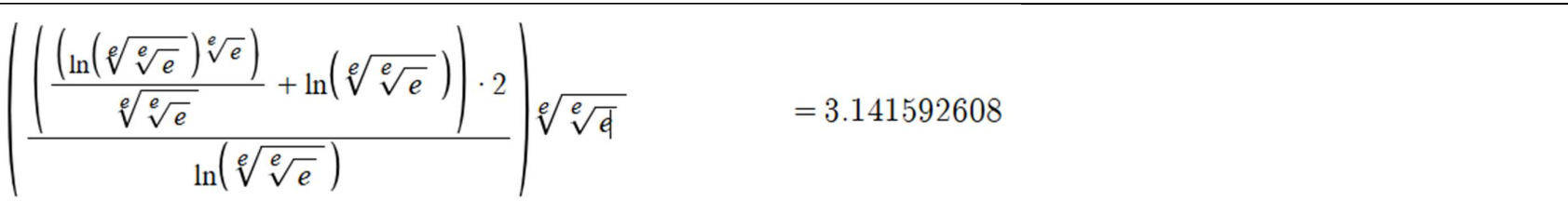
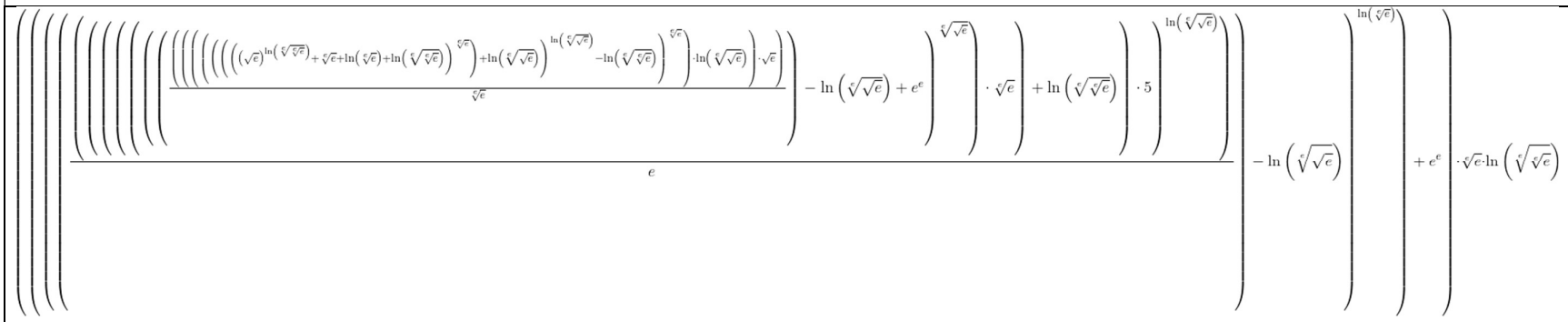


$= 3.141592608$

*screenshot from https://www.desmos.com/scientific?

(((((ln(sqrt[e]{sqrt[e]{e}}))^sqrt[e]{e})/ sqrt[e]{sqrt[e]{e}} + ln(sqrt[e]{sqrt[e]{e}}))*2)/ ln(sqrt[e]{sqrt[e]{e}}))^(sqrt[e]{sqrt[e]{e}})

Digit ok/digit used: 7/1 (700%)



LaTex: \left(\left(\frac{\left(\left(\left(\frac{\left(\left(\left(\sqrt{e}^{\ln\left(\sqrt[e]{\sqrt[e]{e}}\right)} + \sqrt[e]{e} + \ln\left(\sqrt[e]{e}\right) + \ln\left(\sqrt[e]{\sqrt[e]{e}}\right)\right)^{\sqrt[e]{e}} + \ln\left(\sqrt[e]{\sqrt{e}}\right)\right)^{\ln\left(\sqrt[e]{\sqrt{e}}\right)} - \ln\left(\sqrt[e]{\sqrt[e]{e}}\right)\right)^{\sqrt[e]{e}} \cdot \ln\left(\sqrt[e]{\sqrt{e}}\right) \cdot \sqrt{e}}{\sqrt[e]{e}} - \ln\left(\sqrt[e]{\sqrt{e}}\right) + e^e\right)^{\sqrt[e]{\sqrt{e}}} \cdot \sqrt[e]{e} + \ln\left(\sqrt[e]{\sqrt[e]{e}}\right)\right) \cdot 5\right)^{\ln\left(\sqrt[e]{\sqrt{e}}\right)}}{e} - \ln\left(\sqrt[e]{\sqrt{e}}\right)\right)^{\ln\left(\sqrt[e]{\sqrt{e}}\right)} + e^e\right) \cdot \sqrt[e]{e} \cdot \ln\left(\sqrt[e]{\sqrt{e}}\right)

Symbolic: ((((((((((((((((((((((((sqrt(e) ** ln(sqrt[e]{sqrt[e]{e}})) + sqrt[e]{e}) + ln(sqrt[e]{e})) + ln(sqrt[e]{sqrt[e]{e}})) ** sqrt[e]{e}) + ln(sqrt[e]{sqrt(e)})) ** ln(sqrt[e]{sqrt(e)})) - ln(sqrt[e]{sqrt[e]{e}})) ** sqrt[e]{e}) * ln(sqrt[e]{sqrt(e)})) * sqrt(e)) / sqrt[e]{e}) - ln(sqrt[e]{sqrt(e)})) + e^e) ** sqrt[e]{sqrt(e)}) * sqrt[e]{e}) + ln(sqrt[e]{sqrt[e]{e}})) * 5) ** ln(sqrt[e]{sqrt(e)})) / e) - ln(sqrt[e]{sqrt(e)})) ** ln(sqrt[e]{e})) + e^e) * sqrt[e]{e}) * ln(sqrt[e]{sqrt[e]{e}}))

Python verification:

```python
from decimal import Decimal, getcontext

getcontext().prec = 60

# Define Euler's number e as a high-precision Decimal
e = Decimal(1).exp()

# Define helper functions to maintain high precision
def ln(x):
    return x.ln()

def sqrt(x):
    return x.sqrt()

def root_e(x):
    # The e-th root of x, meaning x^(1/e)
    # In the decimal library, it is safer and more accurate to calculate this as exp(ln(x)/e)
    return (ln(x) / e).exp()

# Preparing precise symbolic components of the formula ---
s_e = e
s_sqrt_e = sqrt(e)
s_e_e = e ** e
s_root_e_e = root_e(e)
s_ln_root_e_e = ln(s_root_e_e)
s_root_e_sqrt_e = root_e(s_sqrt_e)
s_ln_root_e_sqrt_e = ln(s_root_e_sqrt_e)
s_root_e_root_e_e = root_e(s_root_e_e)
s_ln_root_e_root_e_e = ln(s_root_e_root_e_e)
```

```python
# Inside the first large block
step_1 = (((s_sqrt_e ** s_ln_root_e_root_e_e) + s_root_e_e) + s_ln_root_e_e) + s_ln_root_e_root_e_e
step_2 = step_1 ** s_root_e_e
step_3 = step_2 + s_ln_root_e_sqrt_e
step_4 = step_3 ** s_ln_root_e_sqrt_e
step_5 = step_4 - s_ln_root_e_root_e_e
step_6 = step_5 ** s_root_e_e

# First fraction and adding e^e
step_7 = (step_6 * s_ln_root_e_sqrt_e * s_sqrt_e) / s_root_e_e
step_8 = step_7 - s_ln_root_e_sqrt_e + s_e_e
step_9 = step_8 ** s_root_e_sqrt_e

# Multiplying by 5 and exponentiation
step_10 = (step_9 * s_root_e_e) + s_ln_root_e_root_e_e
step_11 = step_10 * 5
step_12 = step_11 ** s_ln_root_e_sqrt_e

# Second large fraction and exponentiation by ln(root_e(e))
step_13 = (step_12 / s_e) - s_ln_root_e_sqrt_e
step_14 = step_13 ** s_ln_root_e_e

# Final addition of e^e and multiplying the tail of the formula
step_15 = step_14 + s_e_e
final_result = step_15 * s_root_e_e * s_ln_root_e_root_e_e

# Displaying the result rounded exactly to 30 decimal places
print(f"Expression result with 30 decimal places precision:")
print(f"{final_result:.30f}")
```

```
3.141592654422839442429480287976
```

Or:
((((((((((((((((((((((((1.648721270700128 ** 0.135335283236613) + 1.444667861009766) + 0.367879441171442) + 0.135335283236613) ** 1.444667861009766) + 0.183939720585721) ** 0.183939720585721) - 0.135335283236613) ** 1.444667861009766) * 0.183939720585721) * 1.648721270700128) / 1.444667861009766) - 0.183939720585721) + 15.154262241479260) ** 1.201943368470314) * 1.444667861009766) + 0.135335283236613) * 5) ** 0.183939720585721) / 2.718281828459045) - 0.183939720585721) ** 0.367879441171442) + 15.154262241479260) * 1.444667861009766) * 0.135335283236613)

Score from SageMath: 3.14159265442285

Where:
e = 2.718281828459045
sqrt(e) = 1.648721270700128
e^e = 15.154262241479260
sqrt[e]{e} = 1.444667861009766
ln(sqrt[e]{e}) = 0.367879441171442
sqrt[e]{sqrt(e)} = 1.201943368470314
ln(sqrt[e]{sqrt(e)}) = 0.183939720585721
sqrt[e]{sqrt[e]{e}} = 1.144920592687449
ln(sqrt[e]{sqrt[e]{e}}) = 0.135335283236613

Digit ok/digit used: 8/1 (800%)

Approximation of pi that uses only e and gives 8 OK digits:

$$\left(\frac{\left(\frac{\left(e+\sqrt[e]{\sqrt{e}}+\sqrt[e]{\sqrt[e]{\sqrt{e}}}\right)^{e}+\ln\left(\sqrt[e]{\sqrt{e}}\right)-\sqrt[e]{\sqrt{e}}}{\ln\left(\sqrt[e]{\sqrt{e}}\right)}-\ln\left(\sqrt[e]{\sqrt{e}}\right)\right)^{\sqrt{e}}}{\sqrt[e]{\sqrt{e}}}\right)\cdot\ln\left(\sqrt[e]{\sqrt[e]{\sqrt{e}}}\right)-e^{e}}{e^{e^{e}}}+e\right)\cdot e^{e}\left(\sqrt[e]{\sqrt[e]{\sqrt{e}}}\right)-e+\ln\left(\sqrt[e]{\sqrt{e}}\right)\ln\left(\sqrt[e]{\sqrt{e}}\right)\cdot\sqrt[e]{e}$$

((((((((((((((((((((((e + sqrt[e]{e}) + sqrt[e]{sqrt[e]{e}}) ** e) + ln(sqrt[e]{e})) - sqrt[e]{e}) / ln(sqrt[e]{e})) - ln(sqrt[e]{e})) ** sqrt{e}) / sqrt[e]{sqrt{e}}) * ln(sqrt[e]{sqrt[e]{e}})) - e^e) / e^{e^e}) + e) * e^e) ** sqrt[e]{sqrt[e]{e}}) - e) + ln(sqrt[e]{e})) ** ln(sqrt[e]{sqrt{e}})) * sqrt[e]{e}
Score from SageMath: 3.1415926513438