



35.50+12% 35.50



Input interpretation :

$$35.5 + 12\% \times 35.5$$

Result:

39.76

Rational approximation:

$$39 + \frac{19}{25}$$

39.76 - 10% 39.76



Input interpretation :

$39.76 - 10\% \times 39.76$

Result:

35.78

Rational approximation:

$35 + \frac{98}{125}$

$(35.78 - 35.5) / 35.5 \cdot 100\%$



Input interpretation:

$$\frac{35.78 - 35.5}{35.5} \times 100\%$$

Result:

0.007887

Rational approximation:

$$\frac{14}{1775}$$



$$k=[1-(-3)]/(-2-5)$$



Input:

$$k = \frac{1 - -3}{-2 - 5}$$

Exact result:

$$-\frac{4}{7} \text{ (irreducible)}$$

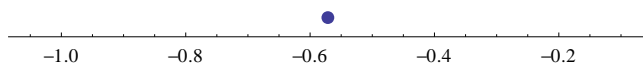
Decimal approximation:

-0.571428571428571428571428571428571428571428571428571...

Repeating decimal:

-0.571428 (period 6)

Number line:



Prime factorization:

$$-2^2 \times 7^{-1}$$

Egyptian fraction expansion:

$$-1 + \frac{1}{3} + \frac{1}{11} + \frac{1}{231}$$



$e^{(5 \ln 2 - \ln 8)}$



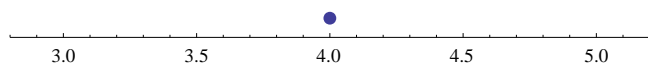
Input:

$$e^{5 \log(2) - \log(8)}$$

Exact result:

4

Number line:



Alternative representations:

$$e^{5 \log(2) - \log(8)} = e^{5 \log(a) \log_a(2) - \log(a) \log_a(8)}$$

Series representations:

$$e^{5 \log(2) - \log(8)} = \exp \left( 10 i \pi \left\lfloor \frac{\arg(2-x)}{2\pi} \right\rfloor - 2 i \pi \left\lfloor \frac{\arg(8-x)}{2\pi} \right\rfloor + 4 \log(x) + 5 \sum_{k=1}^{\infty} -\frac{(-1)^k (2-x)^k x^{-k}}{k} - \sum_{k=1}^{\infty} -\frac{(-1)^k (8-x)^k x^{-k}}{k} \right) \text{ for } x < 0$$

Integral representations:

$$e^{5 \log(2) - \log(8)} = e^{\int_1^2 \left( \frac{7}{6-7t} + \frac{5}{t} \right) dt}$$