\[ 97 = 96 + 1 \]

Prime

\[ 97 = 4^2 + 9^2 \quad \text{Pythagorean prime.} \]
\[ 97 = 2^4 + 3^4 \]

Proth prime:
\[ 3 \cdot 2^5 + 1 \]

Four-dimensional centered cube number

\[ 97^2 = 65^2 + 72^2 \]

97 is hypotenuse of primitive Pythagorean triple.

![Diagram](image)

Smallest prime preceded by 7 composite numbers.

[97 leap days every 400 years in Gregorian calendar]

Regular prime.

Norm of Gaussian prime 9 + 4i.