$83 = 82 + 1$

Prime

Sophie Germain prime, as $2(83) + 1$ is also prime.
Also from Sophie Germain, as $83 = 2 \cdot 41 + 1$. (next 107)

Pillai prime.

$\mathbb{Q}(\sqrt{-83})$ has class number 3.

There are 83 strongly connected digraphs on 4 vertices.

$1 + \frac{1}{2} + \frac{1}{3} + \cdots + \frac{1}{82} + \frac{1}{83} > 5$. (227, 616, 1674...)

$83^4 + 870 \equiv 1 \mod 4871^2$ and $4871^2 \equiv 1 \mod 83^2$.

$83 = 3^2 + 5^2 + 7^2$, sum of squares of first three odd primes. Only prime sum of 3 prime

There are 83 Johnson solids with no hexagons

Only prime with $83^4 + 2$ also prime.

$2^{83} - 83^2$ is prime

Regular prime

$9^2 - 3 + 11 = 83$; $9^2 - 9 + 41 = 83$; from Euler lucky numbers.