73 = 72 + 1

Prime

73! + 1 is also prime

All integers are the sum of at most 73 sixth powers.

73 = 3^2 + 8^2, Pythagorean prime.
Non ob Gaussian prime 8 + 3i.
Twin prime with 71.

Star number (next is 121)

73^2 = 48^2 + 55^2

73 = 8^2 + 8 + 1

If a quadratic form represents all numbers up to 73 it represents all numbers (Manjul Bhargava)

\( R(\sqrt{73}) \) is a Euclidean domain; the last one!

Regular prime