

Свойства степеней

$$a^0 = 1$$

$$a^{-1} = \frac{1}{a}$$

$$a^{-n} = \frac{1}{a^n}$$

$$\left(\frac{a}{b}\right)^{-n} = \left(\frac{b}{a}\right)^n$$

$$a^n \cdot a^m = a^{n+m}$$

$$\frac{a^n}{a^m} = a^{n-m}$$

$$(a \cdot b)^n = a^n \cdot b^n$$

$$\left(\frac{a}{b}\right)^n = \frac{a^n}{b^n}$$

$$(a^n)^m = a^{n \cdot m}$$

$$\sqrt[n]{a^m} = a^{\frac{m}{n}}$$

Таблица степеней

$$2^1 = 2$$

$$2^2 = 4$$

$$2^3 = 8$$

$$2^4 = 16$$

$$2^5 = 32$$

$$2^6 = 64$$

$$2^7 = 128$$

$$2^8 = 256$$

$$2^9 = 512$$

$$2^{10} = 1024$$

$$4^1 = 4$$

$$4^2 = (2^2)^2 = 2^4 = 16$$

$$4^3 = 2^6 = 64$$

$$4^4 = 2^8 = 256$$

$$4^5 = 2^{10} = 1024$$

$$8^2 = (2^3)^2 = 2^6 = 64$$

$$8^3 = 2^9 = 512$$

$$3^1 = 3$$

$$3^2 = 9$$

$$3^3 = 27$$

$$3^4 = 81$$

$$3^5 = 243$$

$$3^6 = 729$$

$$9^2 = (3^2)^2 = 3^4 = 81$$

$$9^3 = 3^6 = 729$$

$$5^1 = 5$$

$$5^2 = 25$$

$$5^3 = 125$$

$$5^4 = 625$$

$$6^1 = 6$$

$$6^2 = 36$$

$$6^3 = 216$$

$$7^1 = 7$$

$$7^2 = 49$$

$$7^3 = 343$$