1 五則演算

4 + 8 = 12	12 + 88 = 100	128 + 256 = 384
4 - 8 = -4	32 - 12 = 20	512 - 256 = 256
2 * 8 = 16	16 * 24 = 384	128 * 256 = 32768
8/2 = 4	24 * 8 = 3	512 * 128 = 4
7%2 = 1	25%11 = 3	512%100 = 12

2 累乗計算

$2^0 = 1$	$2^2 = 4$	$2^3 = 8$
$3^0 = 1$	$3^2 = 9$	$3^3 = 27$
$4^0 = 1$	$4^2 = 16$	$4^3 = 64$
$5^0 = 1$	$5^2 = 25$	$5^3 = 125$
$6^0 = 1$	$6^2 = 36$	$6^3 = 216$
$7^0 = 1$	$7^2 = 49$	$7^3 = 343$
$8^0 = 1$	$8^2 = 64$	$8^3 = 512$
$9^0 = 1$	$9^2 = 81$	$9^3 = 729$

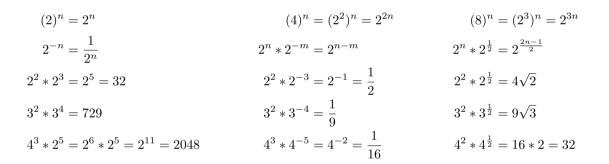
3 平方根

$\sqrt{4}=2$	$\sqrt{8} = 2\sqrt{2}$	$\sqrt{18} = 3\sqrt{2}$
$\sqrt{9} = 3$	$\sqrt{12} = 2\sqrt{3}$	$\sqrt{27} = 3\sqrt{3}$
$\sqrt{16} = 4$	$\sqrt{32} = 4\sqrt{2}$	$\sqrt{64} = 8$
$\sqrt{25} = 5$	$\sqrt{20} = 2\sqrt{5}$	$\sqrt{45} = 3\sqrt{5}$
$\sqrt{36} = 6$	$\sqrt{24} = 2\sqrt{6}$	$\sqrt{54} = 3\sqrt{6}$
$\sqrt{49} = 7$	$\sqrt{28} = 2\sqrt{7}$	$\sqrt{48} = 4\sqrt{3}$
$\sqrt{64} = 8$	$\sqrt{128} = 8\sqrt{2}$	$\sqrt{256} = 16$
$\sqrt{81} = 9$	$\sqrt{36} = 6$	$\sqrt{72} = 6\sqrt{2}$

4 指数計算1

$2^{-1} = \frac{1}{2}$	$2^{-2} = \frac{1}{4}$	$2^{\frac{1}{2}} = \sqrt{2}$
$3^{-1} = \frac{1}{3}$	$3^{-2} = \frac{1}{9}$	$3^{\frac{1}{2}} = \sqrt{3}$
$4^{-1} = \frac{1}{4}$	$4^{-2} = \frac{1}{16}$	$4^{\frac{1}{2}} = \sqrt{4}$
$5^{-1} = \frac{1}{5}$	$5^{-2} = \frac{1}{25}$	$5^{\frac{1}{2}} = \sqrt{2}$
$6^{-1} = \frac{1}{6}$	$6^{-2} = \frac{1}{36}$	$6^{\frac{1}{2}} = \sqrt{2}$
$7^{-1} = \frac{1}{7}$	$7^{-2} = \frac{1}{49}$	$7^{\frac{1}{2}} = \sqrt{2}$
$8^{-1} = \frac{1}{8}$	$8^{-2} = \frac{1}{64}$	$8^{\frac{1}{2}} = \sqrt{2}$
$9^{-1} = \frac{1}{9}$	$9^{-2} = \frac{1}{81}$	$9^{\frac{1}{2}} = \sqrt{2}$

$oldsymbol{5}$ 指数計算 $oldsymbol{2}(%計算出来ない場合は <math>n^m$ の形にせよ)



6 指数計算 3 ※計算出来ない場合は n^m の形にせよ)

$$2^{n} * 8 * \sqrt{2} = 2^{n} * 2^{3} * 2^{\frac{1}{2}} = 2^{\frac{2n+7}{2}}$$

$$\sqrt{8} * 2^{\frac{1}{2}} * 2^{-\frac{1}{2}} = 2\sqrt{2} * \sqrt{2} * \frac{1}{\sqrt{2}} = 2\sqrt{2}$$

$$\sqrt{16} * 4^{\frac{1}{2}} * 4^{-\frac{1}{2}} = 4 * \sqrt{4} * \frac{1}{\sqrt{4}} = 4$$

$$\sqrt{12} * 3^{\frac{1}{2}} * 4^{-\frac{1}{2}} = 2\sqrt{3} * \sqrt{3} * \frac{1}{2} = 3$$

$$\sqrt{18} * 2^{\frac{1}{2}} * 8^{-\frac{1}{2}} = 3\sqrt{2} * \sqrt{2} * \frac{1}{2\sqrt{2}} = 2$$

$$\sqrt{16} * 4^{\frac{1}{2}} * 4^{-\frac{1}{2}} = 4 * \sqrt{4} * \frac{1}{\sqrt{4}} = 4$$

$$\sqrt{18} * 3^{-\frac{1}{2}} * 8^{-\frac{1}{2}} = 3\sqrt{2} * \frac{1}{\sqrt{3}} * \frac{1}{2\sqrt{2}} = \frac{\sqrt{6}}{3}$$

$$\sqrt{18} * 2^{\frac{1}{2}} * 8^{-\frac{1}{2}} = 3\sqrt{2} * \sqrt{2} * \frac{1}{2\sqrt{2}} = 2$$

$$\sqrt{36} * 9^{\frac{1}{2}} * 9^{-\frac{1}{2}} = 6 * 3 * \frac{1}{3} = 6$$

$$\sqrt{81} * 9^{\frac{1}{2}} * 9^{-\frac{1}{2}} = 9 * 3 * \frac{1}{3} = 9$$

$$\sqrt{32} * 3^{\frac{1}{2}} * 5^{-\frac{1}{2}} = 4\sqrt{2} * \sqrt{3} * \frac{1}{\sqrt{5}} = \frac{4\sqrt{6}}{\sqrt{5}} = \frac{4\sqrt{30}}{5}$$