1.1 à 1.7 Le plus facile de chaque

$$2^{-n} = \frac{1}{2^n}$$

$$5^{-3} = \frac{1}{5^3} = \frac{1}{125}$$

2^3

2^2 $\downarrow \div 2$

2^1

2^0 1

$$2^{-n} = \frac{1}{2^n}$$

4^3 64 $\div 4$

4^2 16 $\div 4$

4^1 4 $\div 4$

4^0 1 $\div 4$

4^{-1} $\frac{1}{4^1}$ $\div 4$

4^{-2} $\frac{1}{16}$ $\div 4$ $\frac{1}{4^2}$

$$4^{-2} = \frac{1}{4^2}$$

$$2^{11} \cdot 2^{-2} = 2^{11-2} = 2^{9}$$

$$4^{5} = 4 \cdot 4 \cdot 4 \cdot 4 \cdot 4$$

$$3^{-4} = \frac{1}{3 \cdot 3 \cdot 3 \cdot 3}$$

$3{,}123^{1} = 3{,}123$

$3{,}123^{1{,}4142} = 5{,}00522$

$3{,}123^{2} = 9{,}753129$

3^{π}

$$3^{1,5} = 3^{\frac{3}{2}} = \sqrt[2]{3^3}$$

$$\sqrt{\quad} = \sqrt[2]{\quad}$$

$\sqrt[9]{5} = x$ | $\underbrace{x \cdot x \cdot x \cdot x \cdot x \cdot x \cdot x \cdot x \cdot x}_{9 \text{ faktor}} = 5$

$$2^{\frac{7}{9}} = \sqrt[9]{2^7}$$

1.8 Calculer des racines avec la calculette

2024 100

2025 101

2026 102,01

$$101 \cdot \frac{1}{100} = 1{,}01$$

110. —