

Puissances

$$7^9 =$$

$$5^2 = 25$$

$$2^3 = 8$$

$$3^2 \cdot 3^1 = 27 = 3^3 = 3^3$$

$$4^3 = 64$$

$$5^2 \cdot 5^3 = 5^{3+2} = 5^{2+3}$$

$$\underbrace{5 \cdot 5 \cdot 5 \cdot 5 \cdot 5}$$

$$2 + 3$$

$$\underbrace{\quad\quad\quad}$$
$$5$$

$$2^m \cdot 2^n = 2^{m+n}$$

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

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

$$\frac{5^3}{5^2} = 5^{3-2} = 5^1$$

$$\frac{2^2}{2^5} = 2^{2-5} = 2^{-3} = \frac{1}{2^3}$$

$$2^2 = 4$$

$$2^1 = 2$$

$$2^0 = 1$$

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

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

↓ ÷ 2

↓ ÷ 2

↓ ÷ 2

↓ ÷ 2

$$\frac{1}{2^2}$$

$$(2^3)^4 = 2^{3 \cdot 4}$$

$$(2^m)^n = 2^{m \cdot n}$$

$$(2 \cdot 3)^5 = 2^5 \cdot 3^5$$

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

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

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

$$\sqrt[n]{2^m} = 2^{\frac{m}{n}}$$

$$\sqrt[5]{2^4} = 2^{\frac{4}{5}}$$

$$(2+6)^n \neq 2^n + 6^n$$

$$(2-6)^n \neq 2^n - 6^n$$

$$(3-4)^5 = (-1)^5 = \underline{-1}$$

$$\left(\overset{b}{\underbrace{x(x-2)}} \right)^2 = (a \cdot b)^2 \\ = a^2 \cdot b^2$$

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

$$\overset{2}{x} \cdot \overset{2}{(x-2)} \\ a^2 \cdot b^2$$

$$(A-B)^2 = A^2 - 2AB + B^2$$

$$x^2(x^2 - 4x + 4)$$

$$x^4 - 4x^3 + 4x^2$$

$$\left(\boxed{x} \cdot \boxed{x-2} \right)^2 =$$

A handwritten mathematical expression in green ink. It shows the product of two terms, x and $x-2$, enclosed in a large pair of parentheses. Each term is individually enclosed in a smaller square box. Below the first box is a vertical line that curves to the right, ending in the number 2. Below the second box is a vertical line that curves to the right, ending in the number 6. To the right of the large parentheses is an equals sign.

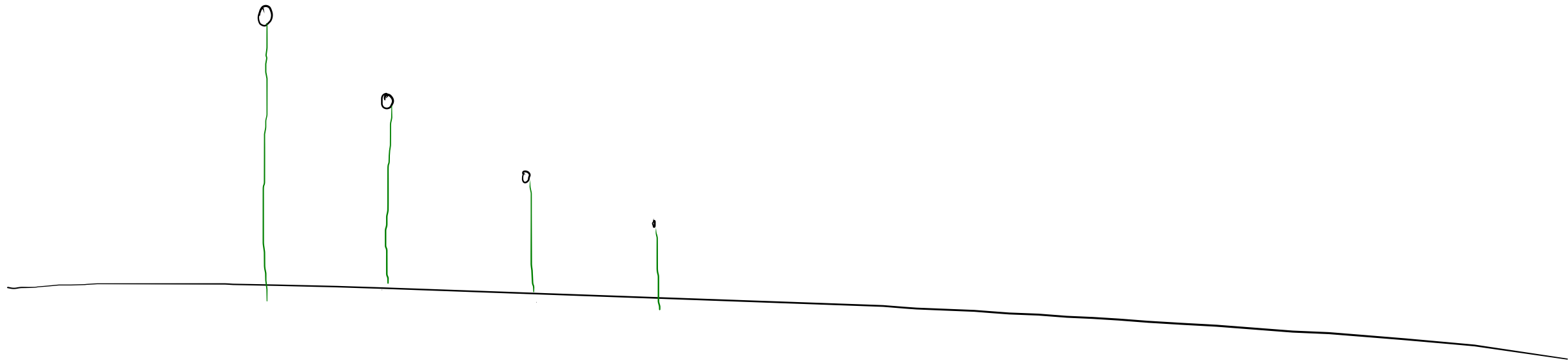
$$(2 \cdot 6)^2 = 2^2 \cdot 6^2$$

$$(2 \cdot 6)^n = 2^n \cdot 6^n$$

$$\left(\begin{array}{c} \textcircled{x} \quad \textcircled{x-2} \\ \downarrow \quad \downarrow \\ 2 \quad 6 \end{array} \right)^2 =$$

$$\left(\frac{2}{b}\right)^n = \frac{2^n}{b^n}$$

$$\left(\frac{3}{4}\right)^5 = \frac{3^5}{4^5}$$



$$36 \cdot (1 - 0,75)^n$$