

~~1000~~

~~(annual 1000 x 1.05 = 1050)~~

semestre $1000 \times 1.05 = 1050 \leftarrow \text{année}$
$$\frac{(1050 + 1000)}{2} = 1025$$

~~$1000 + 1050 = 1025$~~

fin année ~~année~~ $1025 \times 2 - 1000 = 1050$

semestre $1000 \times \left(1 + \left(\frac{5}{100} \times \frac{1}{2}\right)\right) = 1025$

fin année $1025 \times \left(1 + \left(\frac{5}{100} \times \frac{1}{2}\right)\right) = 1050,625$

⊕ interresser 2^e calcul

1^{er} trimestre $1000 \times \left(1 + \left(\frac{5}{100} \times \frac{1}{4}\right)\right) = 1012,5$

4^e trimestre $1000 \times \left(1 + \left(\frac{5}{100} \times \frac{1}{4}\right)\right)^4 = 1050,945$

$1000 \times \left(1 + \frac{5}{100} \times \frac{1}{m}\right)^m$ $m = \text{nbr de période dans l'année}$

$$\frac{a \times \frac{b}{m}}{m}$$

$$\frac{a \times \frac{b}{m}}{m} \Rightarrow a \times \frac{b}{m}$$

$$\frac{(a + \frac{1}{2}b)^2}{a}$$

ax

$$a \times \frac{b}{a} \times \frac{1}{m}$$

$$\frac{a + \frac{1}{m}b}{a^{m-1}}$$

$$a \times \left(\frac{b}{a} \times \frac{1}{m} \right)^m$$

$$a \times \left(1 + \frac{b}{a} \times \frac{1}{m} \right)^m$$

ax

$$a \left(1 + \frac{b}{a} \times \frac{1}{m} \right)^m$$

$$a \times \frac{1}{\frac{m}{b}}$$

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

$$\frac{a^2 + \frac{1}{2}b}{a}$$

$$\frac{a \left(a + \frac{1}{2} - \frac{1}{a \times \frac{1}{2} + \frac{1}{2} \div \frac{1}{b}} \right)}{a}$$

I.

$$a \left(1 + \frac{b}{2a} \right)^2$$

$$a \times \left(1 + \frac{b}{2a} \right) \times \left(1 + \frac{b}{2a} \right)$$

$$a \times \left(1 + \frac{b}{2a} + \frac{b}{2a} + \frac{b^2}{4a^2} \right)$$

$$a \left(1 + \frac{b}{2a} \right)^2$$

$$a \left(1^2 + \left(\frac{b}{2a} \right)^2 + 2 \times 1 \times \frac{b}{2a} \right)$$

$$a + \left(\frac{b}{2a} \right)^2 + \frac{2b}{2a} = a + \frac{b^2}{4a^2} + \frac{b}{a}$$

$$\frac{\left(a + \frac{1}{2}b \right)^2}{a}$$

$$a + \frac{b^2}{4a} + \frac{b}{a}$$

$$\frac{a^2 + \left(\frac{1}{2}b \right)^2 + 2 \times a \times \frac{1}{2}b}{a}$$

$$a + \frac{\left(\frac{1}{2}b \right)^2}{a} + 2 \times \frac{\frac{1}{2}b}{a}$$

$$a + \frac{b^2}{4a^2} + \frac{b}{a}$$

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

$$a + \left(\frac{\frac{1}{2}b}{a} \right)^2 + 2 \times \frac{\frac{1}{2}b}{a}$$

$$a + \left(\frac{b}{2a} \right)^2 + 2 \times \frac{b}{2a}$$