

Interest calculation

- Simple interest

$$FV = PV(1 + rt)$$

- Compound interest

$$FV = PV(1 + r)^t$$

- Combined interest

$$FV = PV(1 + r)^n(1 + rt),$$

where $n \in \mathbb{N} \wedge t < 1$.

- Effective interest rate

$$r_e = \left(1 + \frac{r}{m}\right)^m - 1$$

- Interest intensity

$$f = \ln(1 + r_e) \Rightarrow r_e = e^f - 1$$

- Continuous interest

$$FV = PVe^{ft}$$