

Equations from Finance

$$1. r_r = \frac{1+r_n}{1+i} - 1 \quad 2. FV_n = C_0 \times (1+r)^n \quad 3. PV = \sum_{k=1}^n \frac{CF_k}{(1+r)^k} \quad 4. PV = C_n \times \left[\frac{1}{(1+r)^n} \right]$$

$$5. P = \frac{c}{r-g} = \frac{C \times p}{100 \times (r-g)} \quad 6. FV = c \times \frac{(1+r)^n - 1}{r} \quad 7. P = \frac{c}{r} = \frac{p \times C}{i \times 100}$$

$$8. FV = C_0 \times (1+n \times r) \quad 9. PV = C_n \times \frac{1}{(1+n \times r)}$$

$$10. PV = N \times (1-d \times t) \quad 11. i^* = \frac{d}{1-d \times t}$$

$$12. 13. AF_{r,n} = \frac{(1+r)^n - 1}{(1+r)^n \times r} \quad 14. d^* = \frac{i}{1+i \times t}$$

$$15. FV = C_0 \times (1+r \times n_1) \times \left(1 + \frac{r}{m}\right)^N \times (1+r \times n_2) \quad 16. PV = c * AF_{r,n} + N * DF_{r,n}$$

$$17. DF_{r,n} = \frac{1}{(1+r)^n} \quad 18. r^* = \sqrt[n]{(1+r_{eff})} - 1$$

$$19. 20. P = c \times \frac{1 - \left(\frac{1+g}{1+r}\right)^n}{r-g} \quad 21. X = \frac{c \times t}{T}$$

$$22. r = \frac{P_1 - P_0 + Div_1}{P_0} = \frac{P_1}{P_0} - 1 + \frac{Div_1}{P_0} \quad 23. r = \frac{P_1}{P_0} - 1 \quad 24. r_n = \left(\frac{P_1}{P_0} - 1\right)^* \frac{1}{t}$$

$$25. r_e = \left(\frac{P_1}{P_0}\right)^{\frac{1}{t}} - 1 \quad 26. r_i = \ln\left(\frac{P_1}{P_0}\right)^* \frac{1}{t} \quad 27. r_n = \frac{\sum_{i=1}^n I_i}{N}$$

$$28. r_s = \frac{\sum_{i=1}^n I_i}{P} \quad 29. r_c = r_s + \frac{N-P}{P} \quad 30. t = \frac{1}{d} - \frac{1}{i}$$