FVGA

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Use FVGA to calculate the future value of a growing annuity.

Syntax

Public Shared Function FVGA(ByVal Pmt As Double, ByVal Pgr As Double, ByVal Nper As Double, ByVal Rate As Double, ByVal Pay_type As Integer,)

Arguments

Pmt

the amount of the annuity payment in the first period. *Pmt* is an expression that returns a **Double**, or of a type that can be implicitly converted to **Double**.

Pgr

the periodic growth rate of the annuity. This is the percentage amount, expressed as a decimal, by which the annuity will increase in each period. *Pgr* is an expression that returns a **Double**, or of a type that can be implicitly converted to **Double**.

Nper

the number of annuity payments. *Nper* is an expression that returns a **Double**, or of a type that can be implicitly converted to **Double**.

Rate

the percentage rate of return, expressed as a decimal, that you expect the annuity to earn over the number of periods. The annuity payments are compounded using this value. *Rate* is an expression that returns a **Double**, or of a type that can be implicitly converted to **Double**.

Pay_type

the number 0 or 1 and indicates when payments are due. *Pay_type* is an expression that returns a **Integer**, or of a type that can be implicitly converted to **Integer**.

<u>Set Pay_type equal to</u>	If payments are due
0	At the end of a period
1	At the beginning of a period

Return Type Double

Remarks

- The FVGA value will have the same sign as *Pmt*.
- If the *Pay_type* is not equal to zero, it is assumed to be 1.
- If *Rate* is equal to -1 (-100%), FVGA will fall over with a divide by zero.
- To calculate the present value of a growing annuity, use the PVGA function.

See Also

- CUMODDFIPMT Cumulative interest on the periodic annuity payments between a start period and an end period
- CUMODDFPPMT Cumulative principal on the periodic annuity payments between a start period and an end period
- FV Future Value
- FVSCHEDULE Future Value based on Compound Rates
- NOMINAL Annual Nominal Interest Rate
- NPER Number of Periods
- NPERGA Number of Periods of a Growing Annuity
- ODDFIPMT Interest portion of a periodic payment for an annuity with an odd first period
- ODDFPMT Periodic payment for an annuity with an odd first period
- ODDFPMTSCHED Generate Amortization schedule for an annuity with odd first period
- ODDFPPMT Principal portion of a periodic payment for an annuity with an odd first period
- ODDFPV Present value of an annuity with an odd first period
- ODDFRATE Periodic interest rate for an annuity where the first period is longer or shorter than the other periods
- ODDPV Present value of an annuity with an odd first period
- PMTGA Initial Payment of a Growing Annuity
- PV Present Value
- PVGA Present Value of a Growing Annuity
- RATE Interest Rate of an Annuity