

NPERGA

Updated: 31 Mar 2016

Use **NPERGA** to calculate the number of whole periods for a growing annuity to reach a future value.

Syntax

```
Public Shared Function NPERGA(  
    ByVal FV As Double,  
    ByVal Pgr As Double,  
    ByVal Pmt As Double,  
    ByVal Rate As Double,  
    ByVal Pay_type As Integer,)
```

Arguments

FV

the future value of the annuity. *FV* 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**.

Pmt

the initial annuity payment. *Pmt* 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**.

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

Return Type

Double

Remarks

- If the *Pay_type* is not equal to zero, it is assumed to be 1.
- To calculate the Future value of a growing annuity, use the [FVGA](#) function.

See Also

- [CUMODDFIPMT](#) - Cumulative interest on the periodic annuity payments between a start period and an end period
- [CUMODDFPMT](#) - Cumulative principal on the periodic annuity payments between a start period and an end period
- [FV](#) - Future Value
- [FVGA](#) - Future Value of a Growing Annuity
- [FVSCHEDULE](#) - Future Value based on Compound Rates
- [NOMINAL](#) - Annual Nominal Interest Rate
- [NPER](#) - Number of Periods
- [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