

# 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