ODDFRATE

Updated: 31 Mar 2016

Use ODDFRATE to calculate the periodic interest rate for an annuity where the first period is either longer or shorter than the other periods.

Syntax

```
Public Shared Function ODDFRATE(
ByVal Nper As Integer,
ByVal pmt As Double,
ByVal PV As Double,
ByVal FV As Double,
ByVal FirstPeriod As Double,)
```

Arguments

Nper

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

pmt

the periodic annuity payment. *pmt* is an expression that returns a **Double**, or of a type that can be implicitly converted to **Double**.

PV

the present (current) value of the annuity. *PV* is an expression that returns a **Double**, or of a type that can be implicitly converted to **Double**.

FV

the future value as at the end of the annuity. *FV* is an expression that returns a **Double**, or of a type that can be implicitly converted to **Double**.

FirstPeriod

the length of the first period. *FirstPeriod* is an expression that returns a **Double**, or of a type that can be implicitly converted to **Double**.

Return Type

Double

Remarks

- If *Nper* < 1 then NULL is returned.
- If FirstPeriod <= 0 then NULL is returned.
- If the signs of FV, PV, and pmt are the same then NULL is returned.

- If Pmt = 0 and FV = 0 then -1 is returned.
- If Nper is NULL then Nper = 0.
- If *Pmt* is NULL then *Pmt* = 0.
- If PV is NULL then PV = 0.
- If FV is NULL then FV = 0.
- If FirstPeriod is NULL then FirstPeriod = 1.
- ODDFRATE uses the same conventions for the sign of the inputs and the results as Excel and Google spreadsheets; generally *Pmt* and *FV* should have then same sign and *PV* will have the opposite sign.

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
- FVGA Future value of a growing annuity
- 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 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
- 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