Format for Spreadsheet Functions on Excel©

Present worth:	
= PV(i%,n,A,F)	for constant *A* series
= NPV(i%,second_cell:last_cell) + first_cell	for varying cash flow series
Future worth:	
= FV(i%,n,A,P)	for constant *A* series
Annual worth:	
= PMT(i%,n,P,F)	for single amounts with no *A* series
Number of periods (years):	
= NPER(i%,A,P,F)	for constant *A* series
Rate of return:	
= RATE(n,A,P,F)	for constant *A* series
= IRR(first_cell:last_cell)	for varying cash flow series
Interest rate:	
= EFFECT (*r*%,*m*)	for nominal *r*, compounded *m* times per *period*
= NOMINAL (*i*%,*m*)	for effective *i*, compounded *m* times per *year*
Depreciation:	
= SLN(P,S,n)	Straight line depreciation for each period
= DDB(P,S,n,t,d)	Double declining balance depreciation for period *t* at rate *d*
= DB(P,S,n,t)	Declining balance, rate determined by the function
= VDB(P,S,n, start_period, end_period, factor)	Switch from declining balance to straight line depreciation
= VDB(P,0,n,MAX(0,t − 1.5), MIN(n,t − 0.5), factor)	MACRS depreciation for period *t*
Logical IF function:	
= IF(logical_test,value_if_true,value_if_false)	for logical two-branch operations

Notation for Spreadsheet and Calculator Functions

Value Sought	Spreadsheet	Calculator
Present worth	= PV(*i*%,*n*,*A*,*F*)	PV(*i*,*n*,*A*,*F*)
Future worth	= FV(*i*%,*n*,*A*,*P*)	FV(*i*,*n*,*A*,*P*)
Annual worth	= PMT(*i*%,*n*,*P*,*F*)	PMT(*i*,*n*,*P*,*F*)
Rate of return	= RATE(*n*,*A*,*P*,*F*)	*i*(*n*,*A*,*P*,*F*)
Number of years	= NPER(*i*%,*A*,*P*,*F*)	*n*(*i*,*A*,*P*,*F*)

Spreadsheet Function to Display a Factor's Numerical Value

Factor Notation	Spreadsheet Function
(*P*/*F*,*i*,*n*)	= −PV(*i*,*n*,,1)
(*F*/*P*,*i*,*n*)	= −FV(*i*,*n*,,1)
(*A*/*F*,*i*,*n*)	= −PMT(*i*,*n*,,1)
(*F*/*A*,*i*,*n*)	= −FV(*i*,*n*,1)
(*P*/*A*,*i*,*n*)	= −PV(*i*,*n*,1)
(*A*/*P*,*i*,*n*)	= −PMT(*i*,*n*,1)

(Note: The PV, FV, and PMT functions on spreadsheets and many calculators change the sense of the sign on the displayed result. Precede the spreadsheet function with a minus sign to retain the same sign; change the calculator's answer to retain the same sign.)