Discounted Cash Flow Analysis Formulas

- $(F/P,i,N) = (1+i)^N$
- $(P/F,i,N) = (1+i)^{-N}$
- $(A/F,i,N) = \frac{i}{(1+i)^N-1}$
- $(F/A,i,N) = \frac{[(1+i)^N-1]}{i}$
- $(A/P,i,N) = \frac{i(1+i)^N}{[(1+i)^N-1]}$
- $(P/A,i,N) = \frac{(1+i)^N-1}{[i(1+i)^N]}$
- Capitalized Value = A x $(P/A,i,\infty) = A/i$
- $(A/G,i,N) = \frac{1}{i} - \frac{N}{(1+i)^N-1}$
- $(P/A,g,i,N) = \frac{(P/A,i^o,N)}{1+g}$
  - $i^o = \frac{1+i}{1+g} - 1$

Built-in formulas in Excel

- F x (P/F,i,N) =PV(i,N,,-F)
- P x (F/P,i,N) =FV(i,N,,-P)
- F x (A/F,i,N) =PMT(i,N,,-F)
- A x (F/A,i,N) =FV(i,N,-A)
- P x (A/P,i,N) =PMT(i,N,-P)
- A x (P/A,i,N) =PV(i,N,-A)
- No built-in formula for (A/G,i,N), sorry!
- You can build your own (P/A,g,i,N) using Excel's PMT function, since A x (P/A,g,i,N) = A x (P/A,io,N)/(1+g):
- A x (P/A,g,i,N) =PV((1+i)/(1+g)-1,N,-A)/(1+g)