Loan Computations

Kurt Bryan and SIMIODE

A worksheet to illustrate loan payment computations for "Money Matters" project in Chapter 2.

First, choose interest rate "r", initial borrowed amount "p[0]", number of payments "payments", monthly payment "b":

```
r := 0.03; #interest rate, annual p[0] := 250000; #initial loan amount b := 1726.45; #monthly payment payments := 180; #Number of monthly payments
Loop over months, store balance in array "p".
printf("Month %d Balance %.2f\n", 0, p[0]) :
    for k from 1 to payments do
        p[k] := (1 + r/12) p[k-1] - b :
        printf("Month %d Interest %.2f Balance %.2f\n", k, \(\frac{r \cdot p[k-1]}{12}\), p[k]) :
    od:
```