@ Formulas of Single Interests and Compound Interests

P: Principal amount of money invested.

1: In keest rak.

t: time (year after the investment)

A: Amount of money after t (years)

1) Simple In krest

A = P(1+1+) [linear sponth]

(a) Compound Interest (once a year)

 $A = I(I+I)^{t}$  [exponential growth]

3) compourd n'ines a year

n=12 ( compound month 4)

n= 4 ( quorter 4)

n = 365 (daity)

OrA so on

 $A = P \cdot \left(1 + \frac{r}{n}\right)^{nt}$ 

when n -sa ( compound infinitely many times)  $P.(1+\frac{r}{r})^{nt} \rightarrow Pe^{rt}$ This 15 continuous compound:  $A = Pe^{(t)}$