A = 10,000 annuel growth of 9%.

A (+) = 10,000 (1.09)

A (65)
$$\approx 2.7 \times 10^{6}$$

Shape

y=ab

A = 10,000 (1.09)

A (65) $\approx 2.7 \times 10^{6}$

Shape

y=ab

A = 10,000 (1.09)

A = 10,000

$$f(x) = 2^{-x} = \left(\frac{1}{2}\right)^{x}$$

$$\int_{1}^{1} \frac{1}{2} \frac{1}{3} \frac{1}{4} \frac{1}{5} \frac{1}{6}$$

$$f(x) = \frac{\sin x}{x}$$

$$\int_{-\infty}^{\infty} f(x) = 0$$

$$H.h. y=0$$

$$Ex A(t) = 100 (1.10)^{t}$$

$$A(1) = 110$$

$$A(2) = 121 = 100 (1.10)(1.10)$$

$$A(3) = 100 (1.10)(1.10)(1.10)$$

\$ 100 to start at nominal rate of 10% componded semianually $A(t) = 100 \left((1 + \frac{0.10}{2}) (1 + \frac{0.10}{2}) \right)$ $= 100 \left(1 + \frac{0.10}{2} \right)^{2}$ A(1) = 110.25

\$100. Nommal interest of (ompould monthy (like a moitgage) $A(4)=100\left(\left(1+\frac{0.1}{12}\right)^{12}\right)^{\frac{1}{2}}$ $= 100 \left(1 + \frac{0.1}{12} \right)^{12t}$ $= 100 \left(1 + \frac{0.1}{12} \right)^{12t}$ $= 110.47 \rightarrow 4PR \text{ is 10.417}$ Generalize to compounding in thus a year at a nominal rate of $A(t) = A_0(1 + \frac{c}{n})$

 $\begin{array}{l} (2) \times 10,000 & \text{at birth you earn} \\ (3) \times 10,000 & \text{at age (65 how much do is)} \\ (4) \times 10,000 & \text{at age (10)} \\ (4) \times 10,000 & \text{at 365} \end{array}$ $A(65) = 10,000 & \text{at birth you earn} \\ A(65) = 10,000 & \text{at birth you earn} \\ (4) \times 10,000 & \text{at birth you earn} \\ (5) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at birth you earn} \\ (65) \times 10,000 & \text{at$