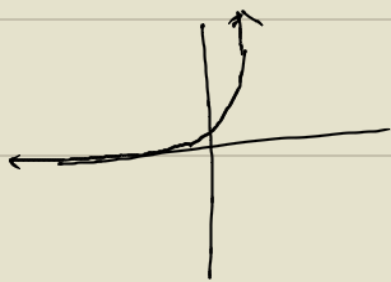


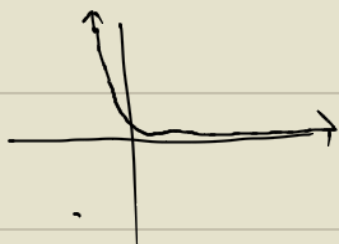
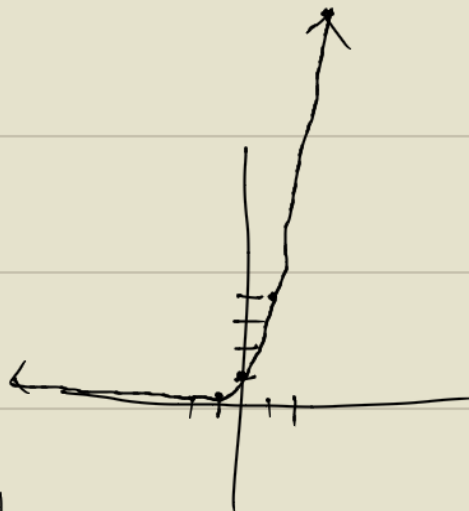
e

DM LN



$$y = 4^x$$

X	y
2	$y = 4^2 = 16$
1	$4^1 = 4$
0	$4^0 = 1$
-1	$4^{-1} = \frac{1}{4}$
-2	$4^{-2} = \frac{1}{4^2} = \frac{1}{16}$



$$f(x) = 5^{(x-1)}$$

"CONTINUOUS"

DOESN'T SAY  
CONTINUOUS

$$A = Pe^{rt}$$

A = ENDING AMT

P = PRINCIPAL

r = RATE (DECIMAL)

t = TIME (YEARS)

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

n = # OF TIMES COMPOUNDED PER YEAR

ANNUAL: n=1      WEEKLY: n=52

SEMI-ANNUAL: n=2      DAILY: n=365

QUARTERLY: n=4

HOURLY: n=(365\*24)

MONTHLY: n=12

#10  $P = 5000, t = 20, r = .031$

a)  $n = 2$

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

$$A = 5000\left(1 + \frac{.031}{2}\right)^{2 \times 20}$$

$$= 5000\left(1 + \frac{.031}{2}\right)^{40}$$

b)  $n = 4$

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

$$= 5000\left(1 + \frac{.031}{4}\right)^{4 \times 20}$$

$$= 5000\left(1 + \frac{.031}{4}\right)^{80}$$

c)  $n = 12$

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

$$= 5000\left(1 + \frac{.031}{12}\right)^{12 \times 20}$$

$$= 5000\left(1 + \frac{.031}{12}\right)^{240}$$

d)  $A = Pe^{rt}$

$$= 5000e^{.031 \times 20}$$