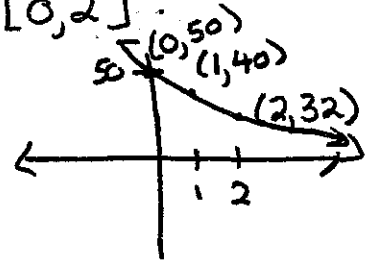
$y = ab^x$

Find the exponential function through (2, 30) and (3, 60)

End.

Find the rate of change on [0, 2]:



Identify the growth or decay rate:

$y = 3(0.64)^x$

If $f(x) = 6^x$ is ~~stretched~~ 2 and reflected over the x-axis, what is the new equation?

$g(x) =$ _____

Graph $y = 3(2)^x$ + find:

y-intercept
domain
range
asymptote

Find the amount paid back on $1500 invested to 6% over 4 years compounded quarterly.

$f(x) = 200(1.06)^x$ models the wolf population in years. What will the population be in 4 years?

Find the rate of change on [0, 2]:

$y = 20(.5)^x$

Graph and find y-int, domain, range + asymptotes:

$y = 2(3)^x + 1$

$y = -6(2)^x - 1$

Find the y-intercept + asymptote

How much would you pay back on a loan of $4000 at 5% compounded continuously over 3 years

y-int

$y = -7$

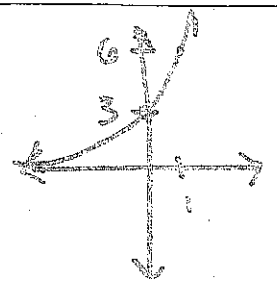
asymptote

$y = -1$

A

252

A



y-int 3

asymptote $y=0$

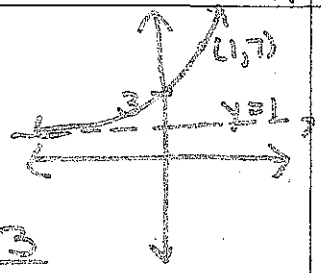
domain $\mathbb{R}$

range $y>0$

A

$1903.48

A



y-int 3

asymptote $y=1$

domain $\mathbb{R}$

range $y>1$

A

decay

36%

change

A

$g(x) = -2.6^x$

A

$y = 7.5(2)^x$

A

-9

A

$4647.34

A

-7.5

A

Start

A