

MAC1140 SEC29 Quiz 09-21-2007 4.2

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Sec#:

Date:

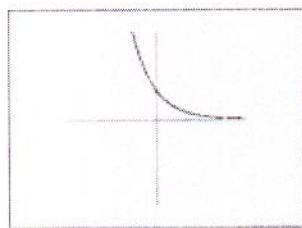
1.

[4.2.1aPT] Select the equation of the following graph.

$y = \frac{1}{a}^x$ $0 < a < 1$ could be regarded
 as $y = b^x$ for some $b > 1$
 or $y = (\frac{1}{a})^x = (a^{-1})^x = a^{-x}$

- $y = (\frac{1}{a})^{-x}, 0 < a < 1$
- $y = -(\frac{1}{a})^{-x}, 0 < a < 1$
- $y = -(\frac{1}{a})^x, 0 < a < 1$
- $y = (\frac{1}{a})^x, 0 < a < 1$

[4.2.1cPT] Select the equation of the following graph.



~~A. $y = a^x + 1, a > 1$~~ , ~~B. $y = a^x - 1, a > 1$~~

- $y = a^{1-x}, 1 < a$
- $y = 1 - a^x, 1 < a$
- $y = 1 - a^x, 0 < a < 1$
- $y = a^{1-x}, 0 < a < 1$

A

$y = a^x + 1, a > 1$

$x \leftarrow x+1$
 $y = a^{x+1}$

left by 1

$x \leftarrow -x$

$y = a^{1-x}$

B

$y = a^x + 1, a > 1$

negat.

$y = -a^x$

+1

$y = 1 - a^x$

up by 1

C

$y = a^x, 0 < a < 1$

negate

$y = -a^x$

+1

$y = 1 - a^x$

up by 1

D

$y = a^x, 0 < a < 1$

$x \leftarrow x+1$
 $y = a^{x+1}$

left by 1

$x \leftarrow -x$

$y = a^{-x+1}$