

NAME: Key

UNIT 6 - PRE-ASSESSMENT #2



Does the following table represent a linear or exponential function?

x	-2	-1	0	1
y	3	9	27	81

x3 exponential

Which of the following equations represent exponential growth and decay?

$y = 4^x$ growth $y = (1/5)^x$ decay

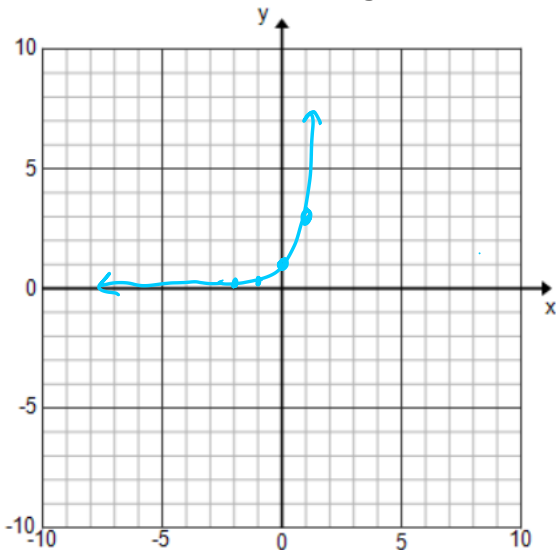
growth
 $y = \left(\frac{1}{6}\right)^{-x}$

decay
 $y = (8)^{-x}$

Graph the function $y = 3^x$

x	-2	-1	0	1
y	$\frac{1}{9}$	$\frac{1}{3}$	1	3

Domain: $(-\infty, \infty)$ Range: $(0, \infty)$



Your deposit \$4,000 into an account that pays 3% compounded yearly. What is your account balance 10 years later?

$y = C(1+r)^t$
 $y = 4000(1+.03)^{10}$
\$5,375.67