

NAME: Key

PRE-ASSESSMENT (UNIT 6)



What does the table represent?

x	-2	-1	0	1	2
y	64	16	4	1	0.25

↪
÷4 exp decay

What does the following represent?

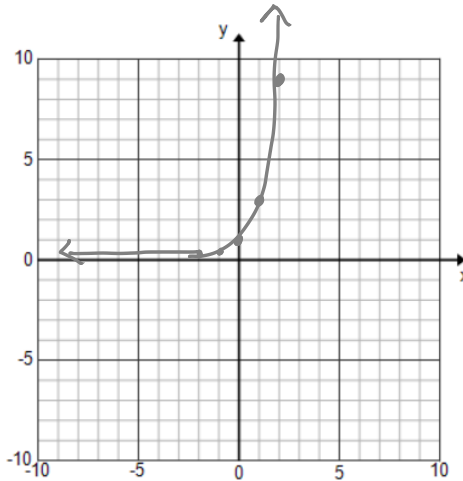
$y = 5 \cdot 2^x$ growth $y = 4^{-x}$ decay

$y = 4 \cdot \left(\frac{1}{8}\right)^{-x}$ growth $y = -3 \cdot \left(\frac{2}{3}\right)^x$ decay

Graph $y = 3^x$

x	-2	-1	0	1	2
y	1/9	1/3	1	3	9

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



You buy a car for \$44,600.

It depreciates at a rate of 8.2%.
How much is it worth in 6 years?

$y = 44,600(1 - 0.082)^6$
\$ 26,692.60

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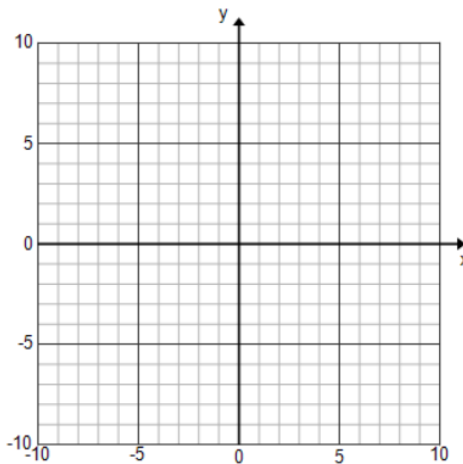
$y = 5 \cdot 2^x$ $y = 4^{-x}$

$y = 4 \cdot \left(\frac{1}{8}\right)^{-x}$ $y = -3 \cdot \left(\frac{2}{3}\right)^x$

Graph $y = 3^x$

x	-2	-1	0	1	2
y					

Domain: Range:



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