

Name:

UNIT 6 DAY 16

HOMEWORK

Decide if the table shows an exponential or linear function.

x	-3	-2	-1	0
y	-44	-34	-24	-14

+10

linear growth

x	3	4	5	6
y	2	6	18	54

x3

exponential growth

x	-1	0	1	2
y	12	36	108	324

x3

exp growth

x	2	3	4	5
y	424	106	26.5	6.625

÷4

exp. decay

Decide if the equation shows exponential growth or decay.

$$y = \frac{2}{3}5^x$$

growth

$$y = 7^x$$

growth

$$y = \frac{1}{6}^x$$

decay

$$y = \frac{9}{4}^x$$

growth

Name:

UNIT 6 DAY 16

HOMEWORK

Decide if the table shows an exponential or linear function.

x	-3	-2	-1	0
y	-44	-34	-24	-14

x	3	4	5	6
y	2	6	18	54

x	-1	0	1	2
y	12	36	108	324

x	2	3	4	5
y	424	106	26.5	6.625

Decide if the equation shows exponential growth or decay.

$$y = \frac{2}{3}5^x$$

$$y = 7^x$$

$$y = \frac{1}{6}^x$$

$$y = \frac{9}{4}^x$$