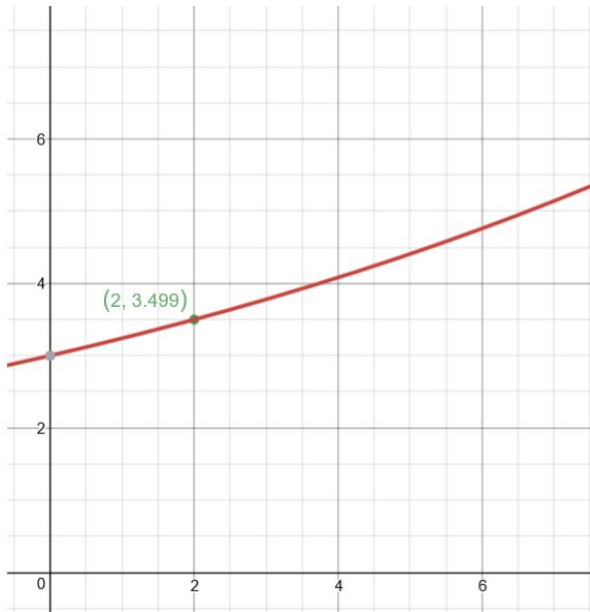


# Math 4CST - Finding the rule of an Exponential Function

Name: \_\_\_\_\_

Find the rule of each of the following exponential functions:

a)



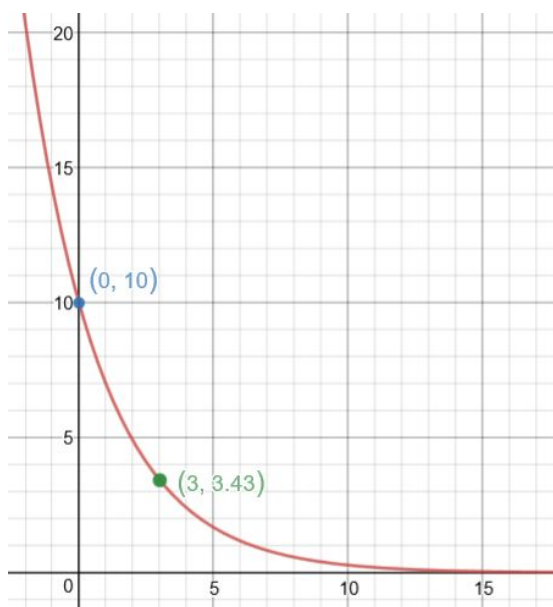
c)

x	y
0	100
1	95
2	90.25

d)

x	y
0	20
3	34.56
5	49.7664

b)



e)

x	y
0	-10
2	-6.4
4	-4.096

f)

x	y
1	0.6
2	1.2
3	2.4

i)

x	y
0	25
1	37.5
2	56.25

g)

x	y
2	20
3	10
4	5

j)

x	y
1	-16.8
2	-23.52
3	-32.928

h)

x	y
2	9
3	27
4	81

**Answers:**

- a)  $y = 3(1.08)^x$
- b)  $y = 10(0.7)^x$
- c)  $y = 100(0.95)^x$
- d)  $y = 20(1.2)^x$
- e)  $y = -10(0.8)^x$
- f)  $y = 0.3(2)^x$
- g)  $y = 80(0.5)^x$
- h)  $y = (3)^x$
- i)  $y = 25(1.5)^x$
- j)  $y = -12(1.4)^x$