3.3 Practice Activity

Practice 3.3-1-1:

Identifying Exponential Functions: Identify the base of the exponential function. And find its value. Round to the nearest hundredth.

a. $f(x) = -4^3$
b. $f(x) = 4^3$
c. $f(x) = (-4)^3$
d. $f(x) = -4e^3$

Practice 3.3-2-1:

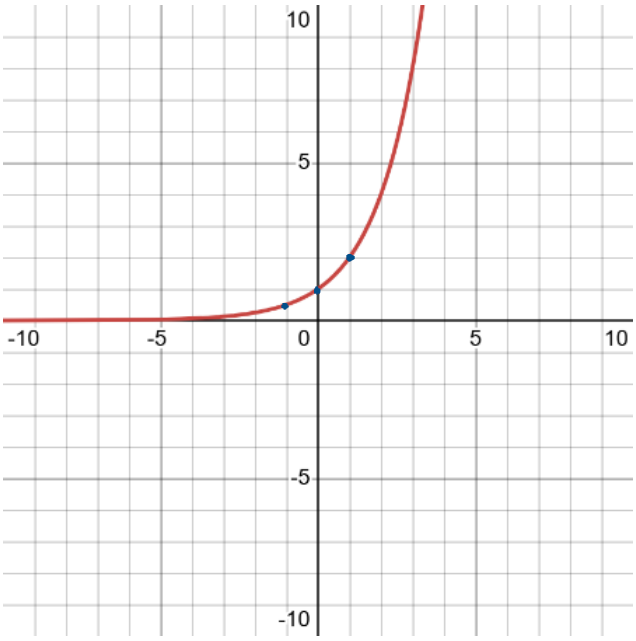
Graph the function.

$$f(x) = (\frac{1}{2})^x$$

a) Complete the table

x	f(x)	(x, y)
-1	$\left(\frac{1}{2}\right)^{-1} = 2$	(-1,2)
0	$\left(\frac{1}{2}\right)^{0} = 1$	(0,1)
1	$\left(\frac{1}{2}\right)^{1} = 0.5$	(1,0.5)

b) Can we use x=-2?
c) Can we use other x values?
d) Any x value that we cannot use? Why.
e) Select the correct graph.



Practice 3.3-3-1:

Solve Elementary Exponential Equations.

$$9^{x+3} = \frac{1}{3}$$

Non-Prime Number Base **fraction and prime denominator**