

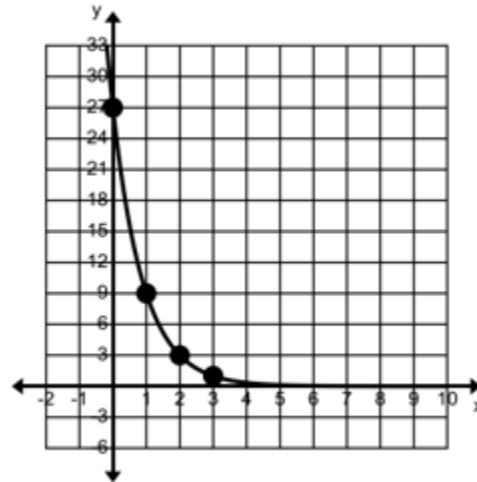
Practice Assignment

For the following functions, name all the transformations and then give the y-intercept, asymptote, and whether it is growth or decay:

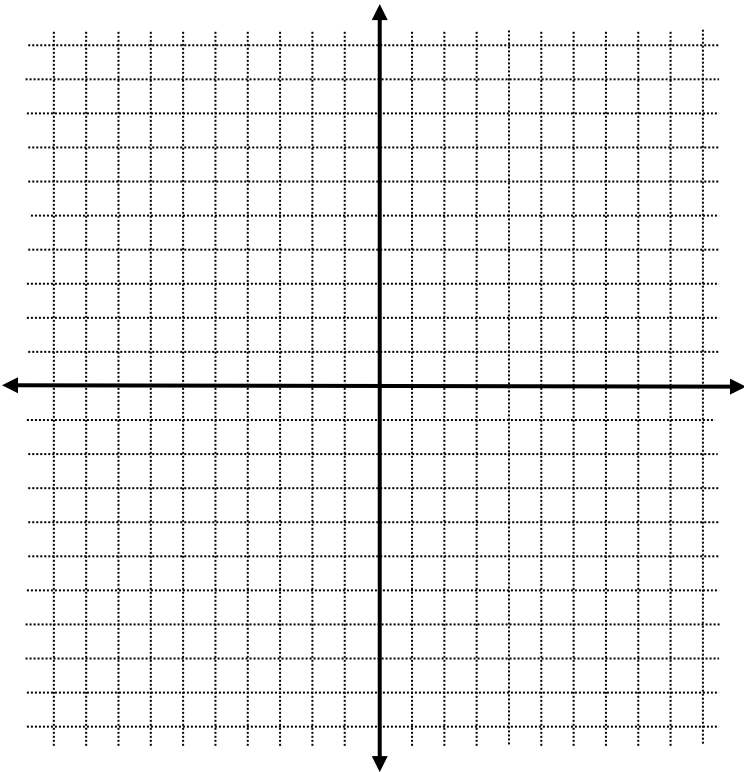
Function	Transformations	Y-intercept	Asymptote	Growth/Decay
a. $y = 3(2)^x$				
b. $y = 5\left(\frac{1}{4}\right)^x - 4$				
c. $y = \frac{1}{2}(2)^x - 6$				
d. $y = -7\left(\frac{1}{3}\right)^x + 2$				
e. $y = 2\left(\frac{1}{4}\right)^x$				
f. $y = \frac{1}{4}\left(\frac{3}{2}\right)^x + 1$				
g. $y = -3(5)^x + 4$				
h. $y = 4(2)^{x+3} - 6$				
i. $y = 3\left(\frac{1}{2}\right)^{x-1} + 1$				

1. Create an equation to represent each table or graph.

x	-3	-2	-1	0	1	2	3
y	4	8	16	32	64	128	256



2. Graph the following function: $y = 2 \cdot 3^x - 4$



3. Determine if the following ordered pairs is linear, quadratic, or exponential and explain why.

$$\{(-2, 2), (-1, 4), (0, 6), (1, 8), (2, 10)\} \quad \{(-2, 8), (-1, 4), (0, 2), (1, 1), (2, 0.5)\}$$