

Exponential Partner Problems

Name _____

Each person takes a different column to work. Compare answers. The answer to each question should be the same regardless of person A or B. Please do the front and back.

Person A		Person B	
1	What is the y-intercept of the function? $y = 2(4)^x$	1	Evaluate for $x = -1$ $y = 8(4)^x$
2	What is the domain of the function $y = (3)^{x-1}$?	2	What is the domain of the function $y = 4\left(\frac{1}{2}\right)^x$?
3	Describe the transformation of the function $y = (2)^{x-2} + 1$	3	Describe the transformation of the function $y = (8)^{x-2} + 1$
4	Evaluate for $x = 2$ $y = \frac{1}{2}(4)^x$	4	What is the y-intercept of the function $y = 3(2)^x + 5$?
5	What is the range of the function $y = -3(2)^{x+1} - 5$	5	What is the range of the function $y = -2(6)^{x+1} - 5$
6	What is the asymptote of the function $y = 3\left(\frac{1}{2}\right)^{x+4} - 1$?	6	What is the asymptote of the function $y = 5\left(\frac{5}{2}\right)^{x-2} - 1$?
7	Identify the domain, range, and asymptote of each function. $y = 5(0.2)^{x+1}$ Domain _____ Range _____ Asymptote _____	7	Identify the domain, range, and asymptote of each function. $y = 2.5(0.3)^{x-4}$ Domain _____ Range _____ Asymptote _____
9	Describe the transformation: $y = -3(2)^x + 2$	9	Describe the transformation: $y = -3\left(\frac{1}{4}\right)^x + 2$

