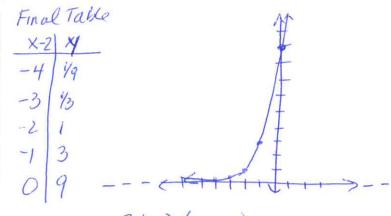
Algebra 2B 8.1-8.2 Review

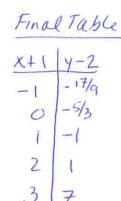
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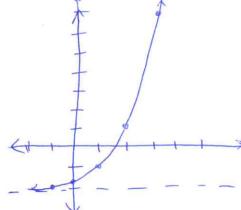
Graph the exponential function using tables. Find domain and range. Describe transformations.

1.
$$y = 3^{x+2}$$

2.
$$y = 3^{x-1} - 2$$







Translation ZL D (-0900)

3. An initial population of 895 quail increases at an annual rate of 7%. Write an exponential function to model the quail population. 6= 1 - . 07 = 1.07

4. For an annual rate of change of -31%, find the corresponding growth or decay factor.

5. Without graphing, determine whether the function $y = (5.2)^x$ represents exponential growth or exponential decay. (910wth 6>1

6. Without graphing determine whether the function $y = 7\left(\frac{2}{3}\right)^x$ represents exponential growth or decay. Explain how you know. Decay b<1

7. In a particular region of a national park, there are currently 330 deer, and the population is increasing at an annual rate of 11%.

a. Write an exponential function to model the deer population.

X=#ofyvs y= # of deer

b. Predict the number of deer that will be in the region after 10 years

y=330(1.11)¹⁰≈ 937 deer