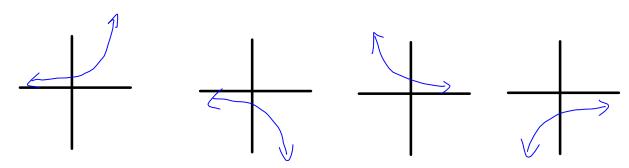
Bell Work: |-74-19

Answer this question in your spiral notebook. Give your answer, then explain why you made your choice. (We will explore this later in class)

Question: Would you rather be given a penny on the first day of the month that doubles every day for one month, or would you rather have 1 million dollars right now.

Exponential Function - a function in the form of

$$y = a(b)^x$$
. $\underset{\times \text{ is a real number}}{\text{afo, } b>0 b \neq 1}$



Linear function

y = m x + b

m = slope $\frac{y_2 - y_1}{x_2 - x_1}$ b = y-intercept

Exponential function

y = a(b)

a = initial amount

b = common for the contraction

X = exponent

Does each table represent a linear or

Y= mx+b X 1 2 3 4 - Input - X 1 2 3 4 Y-1 1 3 5 - out put - Y 4 8 16 32 12 7 7 7 Inear exponential function multiply un divide Linear Add or subtract The type of function is determined by how the y-value changes

Review of Bell Work Problem

Question: Would you rather be given a penny on the first day of the month that doubles every day for one month, or would you rather have 1 million dollars right now.

Y= 21,474,836.48

DUNIARS RIGHT NOW.

A = value of penny = , 01

b = how value is changing = 2

X = # of days = 31

Y = , 01(2147483648)

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