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Warmup 11/(Tomorrow's Date – 1)

- What is an exponential function? Describe it in your own words. Try to do this from the top of your head – without looking at anything else.

Short Quiz Tomorrow

- Linear vs. Exponential Tables
- Writing Equations for both kinds
- Graphing exponential functions
- Domain, Range, Asymptotes of Exponential graphs

DON'T FORGET

- You have until **WEDNESDAY** to retake the last linear quiz. Some of you reeeeeeeally need to retake it. [#dontbelazy](#)

IMPORTANT

- Exponential Equation Form

$$f(x) = a \cdot b^x$$

Initial Value
(What y equals when x is zero)

Growth factor
(If x increases by 1, y multiplies by this)

BACK TO YOUR NOTES SHEET FROM YESTERDAY

Asymptote

Asymptote: A line that a curve approaches (but does not cross), as it heads towards infinity

Represented by a **dashed line** on a graph

Example 2: $y = 2(10)^x$

x	y
-2	1/50
-1	1/5
0	2
1	20
2	200

Example 3: $y = -2(4)^x$

x	y
-2	-1/8
-1	-1/2
0	-2
1	-8
2	-32

Example 4: $y = \left(\frac{1}{2}\right)^x$

x	y
-2	4
-1	2
0	1
1	1/2
2	1/4

REFLECTION QUESTIONS

FINISH YESTERDAY'S HOMEWORK

Homework

- Worksheet