

Vocabulary: base

1. Exponential function: $y = a b^{(x-h)} + k$

2. Base: $a \rightarrow$ width
 a fraction = wider
 a whole # = narrower

3. e: - reflect

$k \rightarrow$ up/down
 $+$ up
 $-$ down

$h \rightarrow$ left/right
 $+$ left, $-$ right

4. $y = -2^{x+1} + 1$

*use calculator for y-intercept (trace feature) and shape.

Transformations: reflect, left 1, up 1

x-int: _____ y-int: $(0, -1)$

Asymptote: $y = 1$

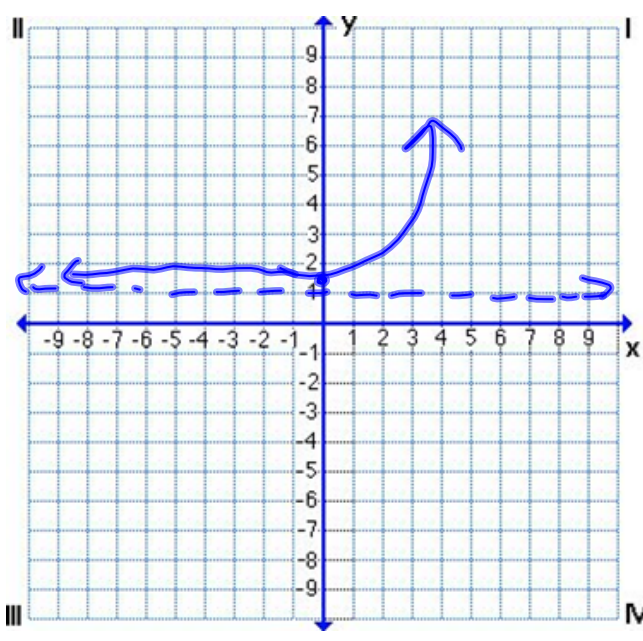
Domain: $(-\infty, \infty)$ Range: $(-\infty, 1)$

Growth or Decay (circle one)

*asymptote controls the boundary line and the range.
 *asymptote comes from the movement up/down.

5. ~~Answer~~

$$y = e^{x-2} + 1$$



Transformations: right 2,
up 1

x-int: ~~_____~~ y-int: (0, 2)

Asymptote: $y = 1$ ←
Domain: $(-\infty, \infty)$ Range: $(1, \infty)$

Growth or Decay (circle one)