

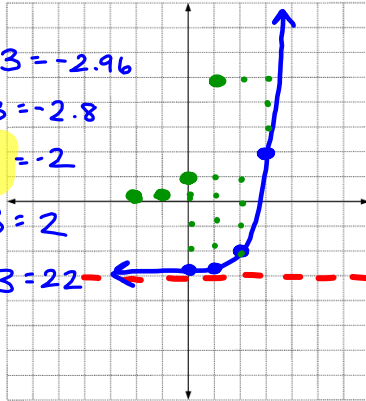
Slide 3

$$f(x) = 5^{(x-2)} - 3$$

Center T-Chart

$$x-2=0 \quad x=2$$

x	y
0	$5^{0-2} - 3 = -2.96$
1	$5^{1-2} - 3 = -2.8$
2	$5^{2-2} - 3 = -2$
3	$5^{3-2} - 3 = 2$
4	$5^{4-2} - 3 = 22$

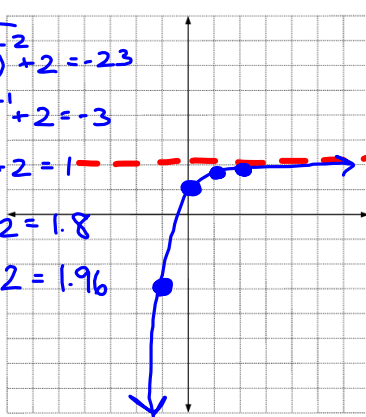


	EXPONENTIAL FUNCTION	**LOGARITHMIC FUNCTION
Domain	\mathbb{R}	
Range	$(-3, \infty)$	
Intercept	$(0, -2.96)$	
Asymptote	$y = -3$	
Growth/Decay?	G	N/A
**Equation of the inverse of the exponential function		

Slide 4

$$f(x) = -(1/5)^x + 2 \quad \therefore -1 \cdot \left(\frac{1}{5}\right)^x + 2$$

x	y
-2	$-1 \cdot \left(\frac{1}{5}\right)^{-2} + 2 = -23$
-1	$-1 \cdot \left(\frac{1}{5}\right)^{-1} + 2 = -3$
0	$-1 \cdot \left(\frac{1}{5}\right)^0 + 2 = 1$
1	$-1 \cdot \left(\frac{1}{5}\right)^1 + 2 = 1.8$
2	$-1 \cdot \left(\frac{1}{5}\right)^2 + 2 = 1.96$



	EXPONENTIAL FUNCTION	**LOGARITHMIC FUNCTION
Domain	\mathbb{R}	
Range	$(-\infty, 2)$	
Intercept	$(0, 1)$	
Asymptote	$y = 2$	
Growth/Decay?	Decay*	N/A
**Equation of the inverse of the exponential function		