

Key Features of Exponential Functions

2. Sketch the graph of the function in the grid provided. Determine the key properties of the function. Clearly label the key properties on the graph.

$$y = -3e^{x+1} + 10$$

Describe the transformations to the base function $y = 2^x$

Domain _____

Range _____

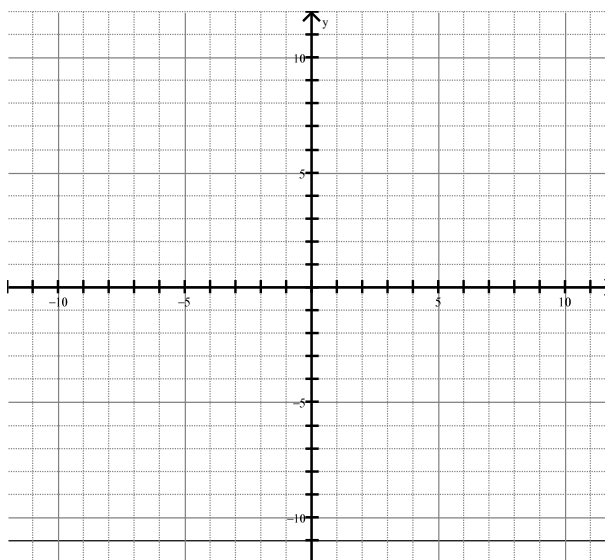
Increasing or decreasing function?

End behaviours:

For x-int , let $y = 0$

(state an exact answer, then state answer accurate to one decimal place)

For y-int , let $x = 0$



Δx	x	y	Δy	
	-2			
	-1			
	0			
	1			
	2			
	3			

Finite differences:

Key Features of Logarithmic Functions

3. Sketch the graph of the function in the grid provided. Determine the key properties of the function. Clearly label the key properties on the graph.

$$y = -2 \log_{\frac{1}{2}} (4x + 8) - 5$$

Describe the transformations to the base function $y = \log_{\frac{1}{2}} x$

Domain _____

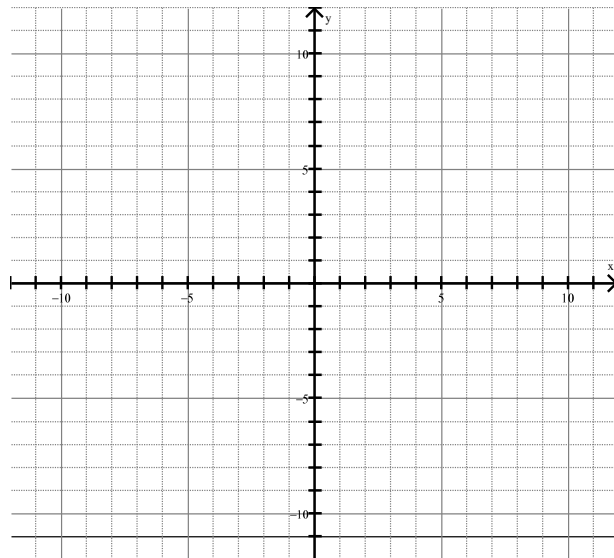
Range _____

Increasing or decreasing function?

End behaviours:

For x-int , _____
(state an exact answer, then state answer accurate to one decimal place)

For y-int , _____



	Δx	x	y	Δy
		-1.75		
		-1.5		
		-1		
		0		
		2		

Finite differences: