	10/11/23 + 10/12/23 Properties of Logs
	An ove
	No clays on Friday! Work on I.F
	We would really like a way to solve to P=abt fort! Defn: let b+1 be a positive number, then the Function
	Heth. Ut 671 be a positive number, then the function
	f(+)= log (H)
	is called a logarithm with baseb.
	1. Mart due 1/02 1/02 0000
	What does this mean
,	English: log, (+) = is the power of b which yields t.)
	Mark: y whogy has
	the same
	$x = log_b(y) = b^x = y$
	Warning: log(-) is a function! logb (7) makes some
	#1 Do as and then b, c but Though dura not It needs an impat
	It needs an import
	a) 0 $d/2$ b) 2 $e) -2$ $3min$ c) 4 $f) 3.2$
	$() 4 \qquad () 4 \qquad () 3)$
3#	#2 Bouland Mink about then do on the board

Notation: $log(-) := log_{10}(-)$ ln(-) := log(-)#4 3 Bomn 10mm #16 Key Properties of Lugs 1) log (1) = 0 2) log (6) = 1 2) $x \circ y_b \circ y_b = 1$ 3) $x \circ y_b \circ y_b = 1$ 4) $x \circ y_b \circ y_b = 1$ 4) $x \circ y_b \circ y_b = 1$ 5) $x \circ y_b \circ y_b = 1$ 6) $x \circ y_b \circ y_b = 1$ 1) $x \circ y_b \circ y_b = 1$ 2) $x \circ y_b \circ y_b = 1$ 2) xTHYCK of Ex 2 min for the reab!

Pleat of Class Thursday: Renau · Doll together Book Why are logs useful? They bring deun pavers! $b^{\log_b(x)} = x$ and $\log_b(b^a) = y$ Board Po reat of R +13+14.