

SWBAT: develop understanding properties of logs 10/3/16

yes, because footballs almost over and I can go home and sleep after school.

if you multiply in a log equation it will make the graph smaller than the original graph

ex: $\log_2(4x)$

a translation of $y = \log_2 x$ can make the graph shift either horizontal or vertically

When trying to find a horizontal shift it all must go the exact same way if ones out of place then theres a problem somewhere

the number next to $\log(\log_2 x)$ is going to be the root or squared to get the log function given

ex: $\log_2(64x)$

$6 + \log_2 x$

$\log_5(125x)$

$3 + \log_5 x$

in log equations if its being added you multiply & if its being subtracted you divide

ex: $a^2 \cdot a^5 = a^7$

$\log_2 x + \log_2 5 = \log_2(5x)$

When adding logs with same bases you multiply them

if theres no base given in the log then its 10 automatically (\log_{10})

exponents are liars and are coefficients

log	of a	Product Rule	$\log_b(xy) = \log_b x + \log_b y$
log	" "	Quotient rule	$\log_b(x/y) = \log_b x - \log_b y$
log	" "	Power Rule	$\log_b(x^k) = k \log_b x$