

MTH 112

Monday 11-26-12

CLASS NOTES

Q

Q1

$$\log_8 [11^3 \cdot \sqrt[3]{12}]$$

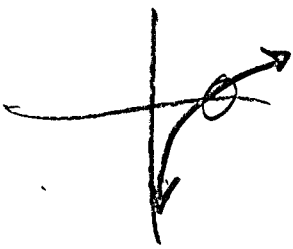
$$\log_8 [11^3 \cdot 12^{\frac{1}{3}}]$$

$$\log_8 11^3 + \log_8 12^{\frac{1}{3}}$$

$$3 \log_8 11 + \frac{1}{3} \log_8 12$$

or

$$3 \log_8 11 + \frac{\log_8 12}{3}$$



(57)

$y = \log_3(x-1) + 1$ graph

x	y
-2	UNDEF.
-1	UNDEF.
0	UNDEF.
1	UNDEF.

Argument of log $\neq$ negative

$x = -2$

$\log_3(-2-1) + 1$

$\log_3(-3) + 1$

$\log_3(-) = \text{UNDEFINED}$

$x = +1$

$\log_3(+1-1) + 1$

$\log_3 0 \neq 1$

ASYMPTOTIC TO $x=1$

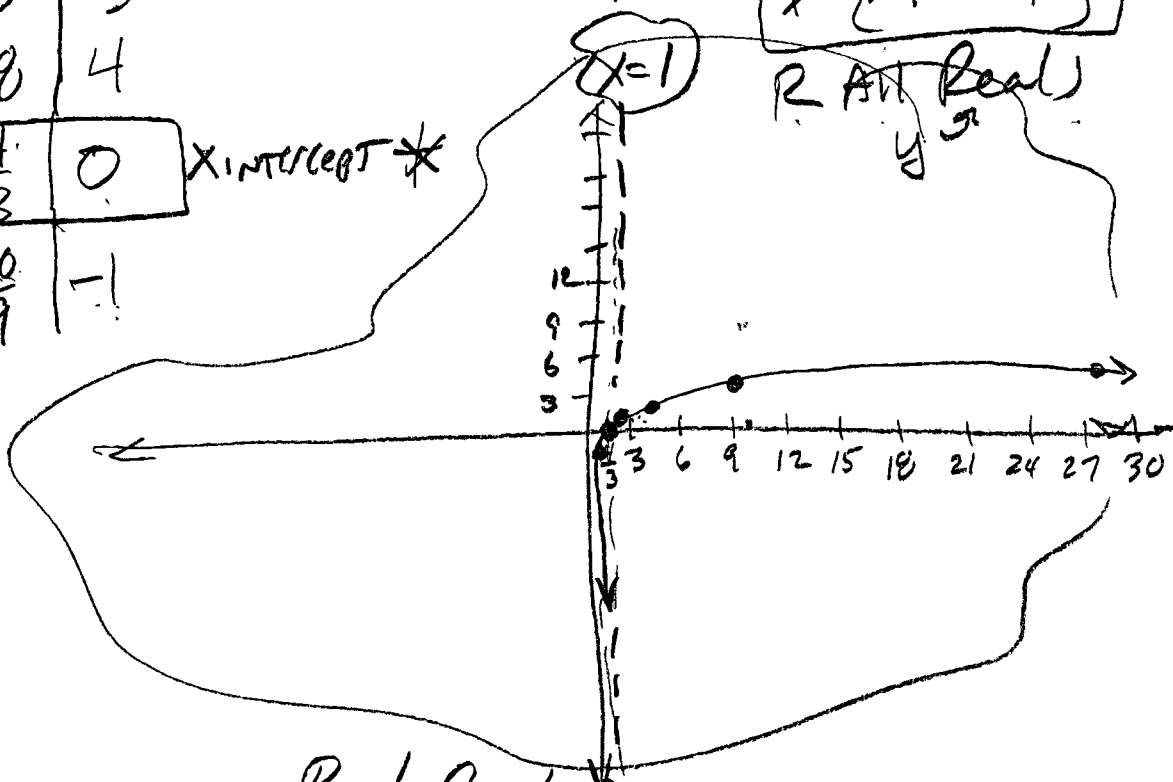
$x-1 > 0$

$\mathbb{D} \{x | x > 1\}$

R.A.N. (Real)

* $\left[\frac{4}{3} \mid 0 \right]$ x-intercept *

$\frac{10}{9} \mid -1$



Rough Graph $\Rightarrow$ use to make neater