Agenda: 8/10/15

- · HW leader:
- · lesson 9 Log review
- · Work on P59,10 * Quiz I on Friday

Period 3

Ivan Madesto

Period 4 Mitchell Bryant

T/F The domain of the function g(2) = \(\frac{7}{2-5} \) is \(\{ 2 \in R \right) \equiv 2 - 2 \right).

Logarithms Review

· Any number can be written as any positive base raised to some power

N = ba

Define:

log N = a

[logarithic form]

[Exponential form]

Two ways to write the

Common logarithm:

1091042

but write

log 42

Natural bywithm:

loge42

but write

Properties:

$$\cdot \log_b(\frac{a}{c}) = \log_b a - \log_b c$$

× 9.10

Solve for x: $\log_{x}(6x-9)=2$

6x-9 = x2 [Exponential form]

 $\chi^{2} - 6x + 9 = 0$

 $\left(x-3\right)^2=0$

X = 3

Check:

log3 (6(3)-9)

= log3 (9)

 $= \log_3(3^2) = 2$

. Domain for f(x) = logh(x) is all positive numbers

· Domain for f(x) = b x is R.

Ex. solve:

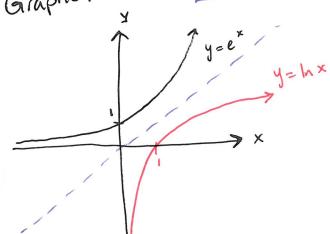
logy P = 2 + logy 4

logy (P/4) = 2

[Properties of loss]

 $\frac{P}{4} = \left(\frac{1}{3}\right)^2$

Exporential Form



Graph $f(x) = |n|x| = \begin{cases} |n \times if \times > 0 \\ |n(-x)| & \text{if } x \neq 0 \end{cases}$