Exam 1 Review Problems

This problem set is for your benefit and will not be turned in for a grade. This is just a sampling of problems and is not intended to be an all inclusive review. Exam 1 will cover Sections 1.2-1.4, 3.1-3.5. Only a four function calculator will be allowed on the exam. The exam will consist of multiple choice and workout problems. Work will not be checked on the multiple choice problems, but for the workout problems, you will be required to show your work to receive full credit.

1. Find the domain of $f(x) = \dfrac{\log_3(5-x) + \sqrt[3]{2x+9}}{x^2+x-12}$

$x \neq 5$ (be of odd root, so can have any #)

$(x+4)(x-3)$

$x \neq -4 \quad x \neq 3$

$= (-\infty, -4) \cup (-4, 3) \cup (3, 5)$

x	$+\infty$	-12		$+\infty$	$+1$
$+$	to	$+$		to	$+$

2. Given $y = 2 \cdot 7^{4x}$, use a logarithmic transformation to find a linear relationship between x and $Y = \log y$.

$\log y = \log 2 + \log 7^{4x}$

$Y = 4x \log(7) + \log 2$

3. Given the semi-log plot in Figure 2, find a functional relationship between x and y.

Step 2 & 3

$(0, -1) \quad (4, 1)$

$\dfrac{1 - -1}{4 - 0} = \dfrac{2}{4} = \dfrac{1}{2}$

$1 = \frac{1}{2}(4) + b$

$1 = 2 + b$

$b = -1$

$Y = \frac{1}{2}x - 1$

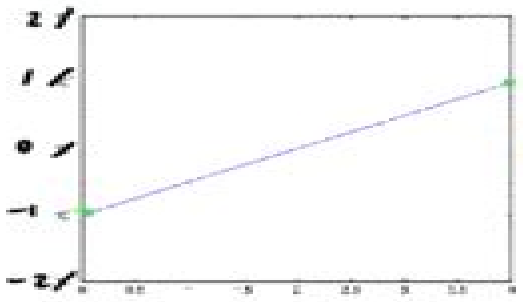

Figure 2: Figure for Problem 3.

Step 4:

$Y = \frac{1}{2}x - 1$

$\log y = \frac{1}{2}x - 1$

$y = 10^{\frac{1}{2}x - 1}$

$= 10^{\frac{1}{2}x} \cdot 10^{-1}$

$y = \frac{1}{10}(10^{\frac{1}{2}})^x$

$y = \frac{1}{10}(\sqrt{10})^x$

4. Solve the following equations for x. $x = \frac{3}{2}$

(a) $\log_2(x-5) + \log_2(x-2) = 2$

$\log_2(x-5)(x-2) = \log_2(x^2 - 7x + 10) = \frac{2}{2}$

$= x^2 - 7x + 10 = 2^1$

$= x^2 - 7x + 8 = 0$

x	$+\infty$	8		$+\infty$	7
$+$	to	$+$		to	$+$

(Can't be $x=1$ because when substituted it is negative)

$x - 8 \to x = 1 \quad x = 8$

(b) $3^x \cdot 3^{x-1} + 4 = 8$

$3^{x+x-1} = 4$

$\ln 3^{2x-1} = \ln 4$

$(2x-1)\ln 3 = \ln(4)$

$2x - 1 = \dfrac{\ln 4}{\ln 3}$

$2x = \left(\dfrac{\ln 4}{\ln 3} + 1\right)\dfrac{1}{2} = x$

5. Convert 48° to radians.

$48^\circ \times \dfrac{\pi}{180} = \dfrac{24\pi}{90} = \dfrac{8\pi}{30} = \dfrac{4\pi}{15}$

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