Week 14 Friday

Additional Problems 8) Solve $3^{24+6} = 4^{4+7}$ (8) Round to 2 decimal places. Apply In: 2x+6 x+7 $\ln 3 = \ln 4$ $(21+6) \ln 3 = (1+7) \ln 4$ $2x\ln 3 + 6\ln 3 = x\ln 4 + 7\ln 4$ $2x \ln 3 - x \ln 4 = 7 \ln 4 - 6 \ln 3$ $x(2\ln 3 - \ln 4) = 7\ln 4 - 6\ln 3$ $X = \frac{(7\ln 4 - 6\ln 3)}{(2\ln 3 - \ln 4)}$ ≈ 3.84 a) Write down the nth term: (9) $\frac{3}{4}, \frac{4}{5}, \frac{5}{6}, \frac{6}{7}, \cdots$ $Q_1 = \frac{3}{4} \qquad Q_2 = \frac{4}{5}$ $q_n = \frac{n+2}{n+3}$ b) Evaluate $\sum_{k=1}^{82} (3k+4)$ $= \sum_{k=1}^{82} 3k + \sum_{k=1}^{82} 4$ $= 3 \begin{pmatrix} 82 \\ 5k \\ k=1 \end{pmatrix} + \begin{pmatrix} 82 \\ 54 \\ k=1 \end{pmatrix}$ $= 3 \cdot \frac{82(83)}{2} + 82(4)$ 10,537 J (15) from Practice Questions Graph f(0)= 3 sin (110-2)+1

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Standard Form		- m	f(0)=	= 3sin[π(9-≑)]+	.				
x y=sinx		nt	f(x)=	- 3sin [π	(x - =)]	+ \				
0	0									
π/2	1									
Π	σ									
3π/2	-1									
2π	0									1
	New	x-valu	د د : .	<u>Divide</u> by	π, +\	ner add	2)11	(cm	ter-int	nitive)
2		Y				Prev. y-va				
0+ 류		1				0				
		4				1				
		1				0				
3-+ 2		-2				- 1				
			\wedge			O				
Mult.	Ne previous	w u 5 y-valu	y-val nesby	ves: 3 and	add	1				

Calculator:
$$\frac{2}{11} \approx 0.6$$

 $\frac{x}{11} + \frac{y}{1}$
 $\frac{1}{11} + \frac{1}{11}$
 $\frac{1}{11} + \frac{1$

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