HW #3 SELECTED SOLUTIONS

213 #8 22.1 #1-3

13 48 In 3-decimal arithmetic, It & , 2+ & , and 3+ & all round to & = 50,000

= 5.00 × 104. az is computed by adding numbers of quite of flerent inagnitude

and the "units" digit is lost with 3-decimal precision.

2.1 #1,3 straight forward

$$\pm 2. \quad a. \quad 1 + x^2 + \frac{1}{2}x^4 + \frac{1}{6}x^6 = 1 + x^2 \left(1 + x^2 \left(\frac{1}{2} + \frac{1}{6}x^2\right)\right)$$

$$b. \quad 1 - \frac{1}{2}x^2 + \frac{1}{24}x^4 = 1 + x^2 \left(-\frac{1}{2} + \frac{1}{24}x^2\right)$$

Programming Assignment:

	-1%	O	1	5
fox	-30,002,001	and the second s	-18	234,126
3(2)	9,09 × 10	Y	101	°° 01 × 3 F 0 3 8 , P ≈
f(x)	2.0572 × 106	-20	=20,627	31,001
ficx)	19,000,600	O	F01 -	-265, 475
g'(x)	~ -9.0992× 10	N)	5050	≈ 1.9672× 10°
£1(x)		- 1	≈ 3.27 63	≈ 379a9,27