Homo work #1 I used the closest representation that does not excreen the Action Volume (A) 1643.01004 5=0 1/00/10/01/ 000000 10/00/0000 1 0-2+0.2-3+0.2-4+0.2-5+0.2-6+1.2-7+0.2-8+1.2-4 $+0.2^{-10}+0.2^{-11}+1.2^{-12}+0.2^{-13}+0.2^{-14}+0.2^{-15}+1.2^{-16}$ 127+10=137 = 10001001 B) 2017.08021 $\frac{1}{0 \cdot 2^{-1} + 0 \cdot 2^{-2} + 0 \cdot 2^{-3} + 1 \cdot 2^{-4} + 0 \cdot 2^{-5} + 1 \cdot 2^{-6} + 0 \cdot 2^{-7} + 0 \cdot 2^{-8} + 1 \cdot 2^{-9} + 0 \cdot 2^{-10} + 0 \cdot$ + 1.2-13 + 0.2-14 + 0.2-15 + 0.2-16 + 1.2-17 + 0.2-18+1.2-19 [127+To = 13) = , [ajor 1,001e 0. 1900/001 11/1/000/000/01000/00/ 2^{100} , $(1 + 2^{-2} + 2^{-3} + 2^{-4} + 2^{-13})$ $\approx [1.8224.25 \times (0^{30})]$ 0 10 110 (0 100 (1 0 1 000) 00 (1 0 ... (B) $-1 \cdot 2^{-34} \cdot (1+2^{-2}+2^{-5}+2^{-6}+2^{-8}+2^{-13}+2^{-6}+2^{-12})$ -7:57 23872 x10:11

$$f' = 12x + 10$$
.
 $f' = 6x^2 + 10x$.

3
$$f(x) = 2x^3 + 5x^2 - 106$$

 $+97100$ Series, $x = 2$ fort of expansion
$$-f(2+h) = 3$$
, Verify by plugger in $x = 2+h$ into $f(x)$

$$f(P.) = f(2) + (P-2)f'(2) + (P-2)^2 f''(2)$$

$$f(\rho) = 26 + (\rho - 2)(44) + (\rho - 2)^{2}(34)$$

$$-f(f=2) = 26$$

 $f(x=2) = 26$

(5) fixed Part OF 90 [-1,1] ToL=0.0001 $\frac{5+2x^3}{3}$ 9(x) V5+2x3 f(x) = g(x) - x =Bisection Method (f(x) P = 0.0 P= 0.5 BM P= 0.75 0.5,1 p = 0.875f, 0.75,1) Bm (0.75, 0.875) P= 0.8125 BM. (. 0.8125, 0.875), P= 0.84375 Bm (-0.8125, 0.84375), P= 0.828125. 8m (Q. 8125, Q. 828125), P= Q. 820313 BMI 0.820313, 0.828125), P= 0.824214 BW(t BM (f, 0,824219, 0.328125), P=0,826 172 0.824219, 0.826172), P= 0.825195 PM (f f. 0.824219, 0.825145) P= 0.824.707 0.824707