MID 2019:-

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(D):-

$$X = Sin^{-1}(1-x^2)$$

$$0 \leq g(x) \leq 1$$
.

$$g'(x) = \frac{1}{2} (1 - \sin x)^{-1/2} x - \cos x$$

<u>ل</u>

$$q'(0) = -\cos(0) = -1 \le 1$$

2019

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93):-

SinTH

1/6

f(n)

f(N, No, X, , M2, M3)z

f(x0) (x-x1) (x-x2) (2003)

+ f(N1)(N-N0)(N-N2)

(No- NI) (No- Na) (DOCO)

f(na) (n-No) (n-N1)

1/2(n)(n-1/2

N Lu LN+1. f(m) 2 n2 Q4):f(N) = N2 $f(N+1) = (N+1)^2$ N N2+2N+1. Pa(x) = f(No)(N-N1) + f(x1)(N-N0) (N+1)2 (X-N) N2 (N-N+1) + (x-N) (N-N-1) f"(&(x) f'(x) z 2n N-N)(N-N-1) x X(E(X))0. replace &(x) E(x) = (n-N) (n-N-1). 72-XN-X-XN+N. n2 - 2nn - N+N n-+x(-2N-1)+N.

$$-1N^{2}(N-N+1) + (N+1)^{2}(N-N).$$

$$-NN^{2} - N^{3} - N^{2} + (N^{2}+2N+1)(N-N).$$

$$-NN^{2} - N^{3} - N^{2} + N^{2}N - N^{3}+2NN-2N^{2}+N$$

$$P_{2}(X). -2N^{3} - 3N^{2} + N(2N-1).$$

$$Max of (h(x)).$$

$$h(x) = (N-N)(N-N-1).$$

$$5X^{2} - NN - X - NN + N^{2} + N.$$

$$N^{2} - 2NN + N - N.$$

$$N^{2} + N(-2N-1) + N.+N^{2}.$$

$$h'(X) = 2N - 2N - 1.$$

$$2N - 2N - 120$$

$$N = 2N + 1.$$

$$2$$

$$N_{2} + N + 1$$

$$2$$

$$N_{2} + N + 1$$

$$2$$

$$N_{3} + N + 1$$

$$2$$

$$N_{4} + N + 1$$

$$2$$

$$N_{5} + N + 1$$

$$3$$

$$N_{1} + N + 1$$

$$4$$

$$N_{1} + N + 1$$

$$N_{2} + N + 1$$

$$N_{3} + N + 1$$

$$N_{4} + N + 1$$

$$N_{5} +$$

Date_ Mid 2019:-10000 2 log 1000. log (1000) h> 9.96

from Lagrange 1-Date. . Me Me $f(x) = f(x_0)(x-x_1)(x-x_2)(x-x_3) + f(x_1)(x-x_0)(x-x_2)(x-x_3)$ $(x_1 - x_0)(x_1 - x_2)(x_1 - x_3)$ (x0-x1) (x0-x2) (x0-x3) $f(x_2)(x-x_0)(x-x_1)(x-x_2) + f(x_3)(x-x_0)(x-x_1)(x-x_2)$ $(x_2-x_0)(x_2-x_1)(x_2-x_3)$ $(x_2-x_0)(x_2-x_1)(x_2-x_2)$ f(1.5)=(-1)(1.5-(-1))(1.5=1)(1.5-3) + (2)(1.5+2)(1.5-1)(1.5-3) (-1+2)(-1-1)(-1-3) (-2+1)(-2-1)(-2-3) + (-1)(15+2)(1-3+1)(1-5-3) + (9)(1-5+2)(1-5+1)(1-5-1) (3+2)(3+1)(3-1). (1+a)(1+1)(1-3)=0.203125



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	Date			e
(QL)	fom.	DIVIDED	DIFFERENCE	Pollynomial:
, M 1	-2 -1+	1 / 2	} 44'	*.
, t(x)	-1. 2	and the same of th	9.	
	f(x) 1	DD. M	II DD	TT DD.
		10,941)		
-2	~	10,717		
		$\frac{z}{2}$ $\frac{z}{1}$	+(no, n, na)	f (40, 41, 42, 73)
-1	2 f(M, 2(a)	-3/2-3,-3/2	23'+3 7
		<u>-2</u> ₂ -3		8 3 7
1	-1 f	Ma, Ma)	10+3/2 z 23/8	3+2 8
		1 = 10.	f(N1972973)	
3	19 2		1 (N19 "29 "3)	
$f(x) = f(x_0) + (n - n_0) f(n_0, n_1) + (n - n_0)(n - n_1) f(n_0, n_1, n_0)$				
+ (n-40)(n-4,)(n-n2)f(n0, 11, 12, 12).				
				5.
$f(x)_2 -1 + (x+2)(3) + (x+2)(x+1)(-3/4) +$				
(M+2)(N+1)(N-1)(7).				
			(8)	
f(x) = -1 + 3(n+2) = -3(n+2)(n+1) +				
a				
7(n+2)(n+1)(n-1)				
8				
421				

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f(1.5) = -1 + 8(1.5+2) - 3(1.5+2)(1.5+1)+ 7(1.5+2)(1.5+1)(1.5-1)8