KLY 2025

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Q10) Reverse Student
$$ID = 420091051$$

Q1b) $(4,2)$, $(0,0)$, $(9,1)$, $(5,1)$ involve

Newton's Basis:				
X	0	۲ ۱	5	9
£(x)	0	2	1	1
$\phi_{o}=1$				
$\phi_1 = (x - 0)$				
$\phi_2 = (x-0)(x-1)$				
$\phi_7 = (x-0)(x-5)(x-5)$				

Last function is
here

$$V(x) = Co. \phi_0 + C_1. \phi_1 + C_2\phi_2$$

 $C_3\phi_3$
 $= 0.1 + \frac{1}{2}(x) + -0.3(x)(x-4)$
 $+ 0.0555(x)(x-4)(x-5)$

$$c_0=0$$
 $c_1=\frac{1}{2}$ $c_2=-0.3$ $c_3=\frac{1}{18}$

$$56+5c_1+5c_2 = 1$$

 $5c_2=-3$

$$0 + \frac{9}{2} - \frac{1553}{113} + 180c_{j} = 1$$

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Q1b) Continue
Newton Divided Difference:

+ 1x (x-0)(x-4) (x-5)

aic) The equations are some. The questions says us predict x=10 with interpolation. But we can not do that. Because our range is between [0,9]. Predicting X=10 will be extrapolation.

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(Q2) 150190024 -> 420091051

Q20) mage size = 42009 x 1051 pixels

Foch pixel will be 8 bits. (1 byte)

42009. 1051. (pixel) - (1 byte) = 44,151459 byte

~ 55 megabyte

(226) (10+10+10.1051 = 430610 byte)≈ 430 bilobyte

Q20) 42009. 100+100+100, 10st = 4306100 byle 2 4. 3 mega byte

For Q20 - The marge size formule is = (length) x (wide) x (size of each pixel)

For Q26 and Q2c -) for mxn metrix, the size formule is

(m) x rank + rank x (n) = total truncated

size

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