CR Kras
$$\Delta y_i = y_{i+1} - y_i$$

$$\Delta y_i = \Delta \Delta y_i$$

$$= \Delta \left(y_{i+1} - y_i \right)$$

$$= \Delta^2 \left(\Delta y_i \right)$$

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$$= \Delta^2 \left(y_{i+1} - y_i \right)$$

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Similar: $\Delta y_i = \Delta^2 y_{i+1} - \Delta y_i$

	FSIWARD TI	able	
% ;	55. Doi:	Δη;	B37;
% ,	% 1		
72	Δ91=92-1	οι Δη = Δη2-Δη1	37 = 37 - 37
J/3	Dy2 = 33-3	03/2 = 073-072	332 = 233 - 252
7\y	۵۶۶ = ۶۲۸-۱ ک	273 = 074-073	•

*

D>4= 75-74

75

- 9 7:0 1 2 3 4 3:1 3 9 31 81
- (5) 71: 1 1.5 2 2.5 3 3.5 4 5: 6 | 10 20 | 1.5 5.
 - © 7:0 1 2 3 4 5 6261 5:5 11 22 40 140 140
 - 7) n: 1
 2
 3
 4
 5

 y: 1
 2
 3

 5

71:23456 y: 45 49.9 54.1 るか、 y; Δy; 4.2 a-59 54.1 121.5-20 Crien 4 data, so ce a lita cubic Polymonial 1. Dy; =0 Ta= 60.05

	х;	5 5	Δ»;	ک ^ک ی ز	.3	
γ_{o}		50 45	,	<i>37</i> (37;	£, €, €
₹,	3	۶، 49. <u>٩</u>	0% = 4.2 = 4.2 Un = 4.9	٥٥٥ - ١٥٥ ٢٠٥	0370 = 271-270 = 0-59.7	u 2 2
N _L	4	yr 54.1		Δ'3, = Δ32- Δ3,		Dyo = By - By
			۵۶۲ = ۵-۲۸۰۱ مرح م	= a-59	Δ3η = Δ52- A3η	=240.2-40
73	5	y a		272 = 047 - 07r	= 180.5-3a	
			073 = 74-73	= 121,5-20		
74	6	y, 67.4	67.4-0			

2) Find the Missing valves

7; 01234567 5; 1-11-11----

Solution

 $\frac{3}{1}$ $\frac{3}$

(1) Find the Missing values in the dollawing data: N 45 50 23% 2: 45 Q+3P-9 50 2 -P 3.6-3a-P Q-4+P 55 -0.4-2a 60 a -2.4-Q 65 -2.4F81a quadrole appoint Polynomial coe know $\Delta 3 = 0$ Q-3P-9=0}

$$\int_{-1}^{2} Q = 0.225$$

$$P = 2.925$$