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Q.1 Detect error. and correct

x	$f(x)$	1 st	2 nd	3 rd	4 th	
1	10	2				
2	12	3	1			
3	15	6	3	2	0	$E = 2E$
4	21	11	5	2	0	$E = 0 \checkmark$
5	32	18	7	4	2	$3E = 6$
6	50	29	11	-4	-8	$-E = -2$
7	79	36	7	8	12	$-4E = 0$
8	115	51	15			
9	166					

$\begin{bmatrix} E \\ -2E \\ E \end{bmatrix} = \begin{bmatrix} 2 \\ -4 \\ 2 \end{bmatrix}$

Thus $\frac{12}{1} = 12$

Error = 12 in 32

Correction

$$f(5) = 32 - 12$$

$$= 20 \quad \text{Ans.}$$