

CHAPTER 5

SECTION 5.2

1. $L_f(P) = 0(\frac{1}{3}) + \frac{1}{3}(\frac{1}{3}) + 1(\frac{1}{3}) = \frac{4}{9}$, $U_f(P) = \frac{1}{3}(\frac{1}{3}) + 1(\frac{1}{3}) + 2(\frac{1}{3}) = \frac{4}{3}$
2. $L_f(P) = \frac{2}{3}(\frac{1}{3}) + \frac{1}{3}(\frac{1}{3}) + 0(\frac{1}{3}) + (-1)(\frac{1}{3}) = -\frac{1}{9}$,
 $U_f(P) = 1(\frac{1}{3}) + \frac{2}{3}(\frac{1}{3}) + \frac{1}{3}(\frac{1}{3}) + 0(\frac{1}{3}) = \frac{2}{3}$
3. $L_f(P) = \frac{1}{3}(\frac{1}{3}) + \frac{1}{3}(\frac{1}{3}) + 0(\frac{1}{3}) = \frac{2}{9}$, $U_f(P) = 1(\frac{1}{3}) + \frac{1}{3}(\frac{1}{3}) + \frac{1}{3}(\frac{1}{3}) = \frac{5}{9}$
4. $L_f(P) = \frac{12}{13}(\frac{1}{3}) + \frac{2}{13}(\frac{1}{3}) + 0(\frac{1}{3}) = \frac{14}{39}$, $U_f(P) = 1(\frac{1}{3}) + \frac{12}{13}(\frac{1}{3}) + \frac{2}{13}(\frac{1}{3}) = \frac{20}{39}$
5. $L_f(P) = 1(\frac{1}{3}) + \frac{2}{3}(\frac{1}{3}) = \frac{5}{9}$, $U_f(P) = \frac{2}{3}(\frac{1}{3}) + 2(\frac{1}{3}) = \frac{8}{9}$
6. $L_f(P) = 0(\frac{1}{5}) + \frac{1}{5}(\frac{1}{5}) + \frac{2}{5}(\frac{1}{5}) + \frac{2}{5}(\frac{1}{5}) + \frac{2}{5}(\frac{1}{5}) = \frac{12}{25}$,
 $U_f(P) = \frac{1}{5}(\frac{1}{5}) + \frac{2}{5}(\frac{1}{5}) + \frac{2}{5}(\frac{1}{5}) + \frac{2}{5}(\frac{1}{5}) + 1(\frac{1}{5}) = \frac{12}{5}$
7. $L_f(P) = \frac{1}{5}(\frac{2}{3}) + 0(\frac{1}{3}) + \frac{1}{5}(\frac{1}{3}) + \frac{1}{5}(\frac{1}{3}) = \frac{4}{15}$, $U_f(P) = 1(\frac{2}{3}) + \frac{1}{5}(\frac{1}{3}) + \frac{1}{5}(\frac{1}{3}) + 1(\frac{1}{3}) = \frac{16}{15}$
8. $L_f(P) = \frac{1}{10}(\frac{1}{3}) + \frac{1}{10}(\frac{1}{3}) + 0(\frac{1}{3}) + \frac{1}{10}(\frac{1}{3}) + \frac{1}{10}(\frac{1}{3}) = \frac{1}{5}$,
 $U_f(P) = 1(\frac{1}{3}) + \frac{1}{10}(\frac{1}{3}) + \frac{1}{10}(\frac{1}{3}) + \frac{1}{10}(\frac{1}{3}) + 1(\frac{1}{3}) = \frac{8}{5}$
9. $L_f(P) = 0(\frac{2}{3}) + \frac{1}{3}(\frac{2}{3}) + 0(\frac{2}{3}) = \frac{2}{9}$, $U_f(P) = \frac{1}{3}(\frac{2}{3}) + 1(\frac{2}{3}) + 1(\frac{2}{3}) = \frac{10}{9}$
10. $L_f(P) = \frac{1}{3}(\frac{2}{3}) + 0(\frac{2}{3}) + (-1)(\frac{2}{3}) = -\frac{2}{9}$, $U_f(P) = 1(\frac{2}{3}) + \frac{1}{3}(\frac{2}{3}) + 0(\frac{2}{3}) = \frac{4}{9}$
11. (a) $L_f(P) \leq U_f(P)$ but $3 \not\leq 2$.
(b) $L_f(P) \leq \int_{-3}^6 f(x) dx \leq U_f(P)$ but $3 \not\leq 2 \leq 6$.
(c) $L_f(P) \leq \int_{-3}^6 f(x) dx \leq U_f(P)$ but $3 \leq 10 \leq 6$.
12. (a) $L_f(P) = (x_0 + 3)(x_1 - x_0) + (x_1 + 3)(x_2 - x_1) + \cdots + (x_{n-1} + 3)(x_n - x_{n-1})$,
 $U_f(P) = (x_1 + 3)(x_1 - x_0) + (x_2 + 3)(x_2 - x_1) + \cdots + (x_n + 3)(x_n - x_{n-1})$
(b) For each index i

$$x_{i-1} + 3 \leq \frac{1}{2}(x_{i-1} + x_i) + 3 \leq x_i + 3$$

Multiplying by $\Delta x_i = x_i - x_{i-1}$ gives

$$(x_{i-1} + 3)\Delta x_i \leq \frac{1}{2}(x_i^2 - x_{i-1}^2) + 3(x_i - x_{i-1}) \leq (x_i + 3)\Delta x_i$$

Summing from $i = 1$ to $i = n$, we find that

$$L_f(P) \leq \frac{1}{2}(x_n^2 - x_0^2) + 3(x_n - x_0) \leq \frac{1}{2}(x_n^2 - x_{n-1}^2) + 3(x_n - x_{n-1}) \leq U_f(P)$$

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Liying Dong



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