CHAPTER 5

SECTION 5.2

1. $L_f(P) = 0(\frac{1}{2}) + \frac{1}{2}(\frac{1}{2}) + 1(\frac{1}{2}) = \frac{3}{4}$. $\quad U_f(P) = \frac{1}{2}(\frac{1}{2}) + 1(\frac{1}{2}) + 2(\frac{1}{2}) = \frac{7}{4}$

2. $L_f(P) = \frac{3}{2}(\frac{1}{2}) + \frac{1}{2}(\frac{3}{2}) + 0(\frac{1}{2}) + (-1)(1) = -\frac{3}{4}$.
$U_f(P) = 1(\frac{1}{2}) + \frac{3}{2}(\frac{3}{2}) + \frac{1}{2}(\frac{1}{2}) + 0(1) = \frac{7}{4}$.

3. $L_f(P) = \frac{1}{2}(\frac{1}{2}) + \frac{5}{8}(\frac{1}{2}) + 0(\frac{1}{2}) = \frac{9}{16}$. $\quad U_f(P) = 1(\frac{1}{2}) + \frac{1}{2}(\frac{1}{2}) + \frac{5}{8}(\frac{1}{2}) = \frac{13}{16}$

4. $L_f(P) = \frac{15}{8}(\frac{1}{2}) + \frac{3}{2}(\frac{1}{2}) + 0(\frac{1}{2}) = \frac{21}{16}$. $\quad U_f(P) = 1(\frac{1}{2}) + \frac{15}{8}(\frac{1}{2}) + \frac{3}{2}(\frac{1}{2}) = \frac{29}{16}$

5. $L_f(P) = 1(\frac{1}{2}) + \frac{3}{2}(\frac{1}{2}) = \frac{11}{8}$. $\quad U_f(P) = \frac{3}{2}(\frac{1}{2}) + 2(\frac{1}{2}) = \frac{7}{4}$

6. $L_f(P) = 0(\frac{1}{16}) + \frac{1}{4}(\frac{1}{16}) + \frac{2}{4}(\frac{1}{16}) + \frac{3}{4}(\frac{1}{16}) + \frac{4}{4}(\frac{1}{16}) = \frac{5}{16}$.
$U_f(P) = \frac{1}{4}(\frac{1}{16}) + \frac{2}{4}(\frac{1}{16}) + \frac{3}{4}(\frac{1}{16}) + \frac{4}{4}(\frac{1}{16}) + 1(\frac{1}{16}) = \frac{15}{16}$

7. $L_f(P) = \frac{1}{16}(\frac{1}{2}) + 0(\frac{1}{2}) + \frac{1}{16}(\frac{1}{2}) + \frac{1}{4}(\frac{1}{2}) = \frac{7}{16}$. $\quad U_f(P) = 1(\frac{1}{2}) + \frac{1}{16}(\frac{1}{2}) + \frac{1}{4}(\frac{1}{2}) + 1(\frac{1}{2}) = \frac{25}{16}$

8. $L_f(P) = \frac{7}{16}(\frac{1}{2}) + \frac{1}{16}(\frac{1}{2}) + 0(\frac{1}{2}) + \frac{1}{16}(\frac{1}{2}) + \frac{1}{4}(\frac{1}{2}) = \frac{15}{32}$.
$U_f(P) = 1(\frac{1}{2}) + \frac{7}{16}(\frac{1}{2}) + \frac{1}{16}(\frac{1}{2}) + \frac{1}{4}(\frac{1}{2}) + 1(\frac{1}{2}) = \frac{47}{32}$

9. $L_f(P) = 0(\frac{1}{3}) + \frac{1}{3}(\frac{1}{3}) + 0(\frac{1}{3}) = \frac{1}{9}$. $\quad U_f(P) = \frac{1}{3}(\frac{1}{3}) + 1(\frac{1}{3}) + 1(\frac{1}{3}) = \frac{7}{9}$

10. $L_f(P) = \frac{1}{3}(\frac{1}{3}) + 0(\frac{1}{3}) + (-1)(\frac{1}{3}) = -\frac{2}{9}$. $\quad U_f(P) = 1(\frac{1}{3}) + \frac{1}{3}(\frac{1}{3}) + 0(\frac{1}{3}) = \frac{4}{9}$

11. (a) $L_f(P) \le U_f(P)$ but $3 \not\le 2$.

(b) $L_f(P) \le \int_{-3}^{2} f(x)\,dx \le U_f(P)$ but $3 \not\le 2 \le 6$.

(c) $L_f(P) \le \int_{-3}^{2} f(x)\,dx \le U_f(P)$ but $3 \le 10 \not\le 6$.

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

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

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

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

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

$$L_f(P) \le \frac{1}{2}(x_1^2 - x_0^2) + 3(x_1 - x_0) \cdots + \frac{1}{2}(x_n^2 - x_{n-1}^2) + 3(x_n - x_{n-1}) \le U_f(P)$$

Calculus One And Several Variables Solution Manual

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