

CHAPTER 5

SECTION 5.2

1. $L_f(P) = 0(\frac{1}{2}) + \frac{1}{2}(\frac{1}{2}) + 1(\frac{1}{2}) = \frac{3}{2}$. $U_f(P) = \frac{1}{2}(\frac{1}{2}) + 1(\frac{1}{2}) + 2(\frac{1}{2}) = \frac{5}{2}$
2. $L_f(P) = \frac{2}{3}(\frac{1}{3}) + \frac{1}{3}(\frac{2}{3}) + 0(\frac{1}{3}) + (-1)(\frac{1}{3}) = -\frac{1}{9}$.
 $U_f(P) = 1(\frac{1}{3}) + \frac{2}{3}(\frac{2}{3}) + \frac{1}{3}(\frac{1}{3}) + 0(\frac{1}{3}) = \frac{16}{9}$
3. $L_f(P) = \frac{1}{2}(\frac{1}{2}) + \frac{1}{6}(\frac{1}{2}) + 0(\frac{1}{2}) = \frac{2}{3}$. $U_f(P) = 1(\frac{1}{2}) + \frac{1}{2}(\frac{1}{2}) + \frac{5}{6}(\frac{1}{2}) = \frac{11}{6}$
4. $L_f(P) = \frac{12}{15}(\frac{1}{5}) + \frac{2}{5}(\frac{1}{5}) + 0(\frac{1}{5}) = \frac{14}{25}$. $U_f(P) = 1(\frac{1}{5}) + \frac{12}{15}(\frac{1}{5}) + \frac{2}{5}(\frac{1}{5}) = \frac{14}{25}$
5. $L_f(P) = 1(\frac{1}{2}) + \frac{2}{3}(\frac{1}{2}) = \frac{11}{6}$. $U_f(P) = \frac{2}{3}(\frac{1}{2}) + 2(\frac{1}{2}) = \frac{14}{6}$
6. $L_f(P) = 0(\frac{1}{6}) + \frac{1}{6}(\frac{1}{6}) + \frac{2}{6}(\frac{1}{6}) + \frac{3}{6}(\frac{1}{6}) + \frac{4}{6}(\frac{1}{6}) = \frac{11}{36}$.
 $U_f(P) = \frac{1}{6}(\frac{1}{6}) + \frac{2}{6}(\frac{1}{6}) + \frac{3}{6}(\frac{1}{6}) + \frac{4}{6}(\frac{1}{6}) + 1(\frac{1}{6}) = \frac{15}{36}$
7. $L_f(P) = \frac{1}{6}(\frac{1}{2}) + 0(\frac{1}{2}) + \frac{1}{6}(\frac{1}{2}) + \frac{1}{2}(\frac{1}{2}) = \frac{5}{6}$. $U_f(P) = 1(\frac{1}{2}) + \frac{1}{6}(\frac{1}{2}) + \frac{1}{2}(\frac{1}{2}) + 1(\frac{1}{2}) = \frac{11}{6}$
8. $L_f(P) = \frac{1}{6}(\frac{1}{2}) + \frac{1}{6}(\frac{1}{2}) + 0(\frac{1}{2}) + \frac{1}{6}(\frac{1}{2}) + \frac{1}{2}(\frac{1}{2}) = \frac{5}{6}$.
 $U_f(P) = 1(\frac{1}{2}) + \frac{1}{6}(\frac{1}{2}) + \frac{1}{6}(\frac{1}{2}) + \frac{1}{2}(\frac{1}{2}) + 1(\frac{1}{2}) = \frac{11}{6}$
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. $L_f(P) = \frac{1}{3}(\frac{2}{3}) + 0(\frac{2}{3}) + (-1)(\frac{2}{3}) = -\frac{2}{3}$. $U_f(P) = 1(\frac{2}{3}) + \frac{1}{3}(\frac{2}{3}) + 0(\frac{2}{3}) = \frac{10}{9}$
11. (a) $L_f(P) \leq U_f(P)$ but $3 \not\leq 2$.
 (b) $L_f(P) \leq \int_{-2}^1 f(x) dx \leq U_f(P)$ but $3 \not\leq 2 \leq 6$.
 (c) $L_f(P) \leq \int_{-2}^1 f(x) dx \leq U_f(P)$ 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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