## 彩2-6中山大學本科生考试草稿纸如分37

拳

警示 《中山大学授予学士学位工作细则》第七条:"考试作弊者不授予学士学位。"

P.110.1 根据这些分型义,直接水下引是松分。

(1) 
$$\int_{a}^{b}kdx = \lim_{\lambda \to 0} \sum_{i=1}^{h}f(\xi_{i}) \cdot \Delta X_{i}; \qquad \lim_{\lambda \to 0} \int_{i=1}^{h}k \cdot \delta X_{i}; \qquad \lim_{\lambda \to 0} \sum_{i=1}^{h}k \cdot \delta X_{i}; \qquad \lim_{\lambda \to 0} \sum_{i=1}^{h}\delta X_{i} = n \cdot \frac{h \cdot a}{n} = h \cdot a.$$

$$= k \cdot \lim_{\lambda \to 0} n \cdot \frac{(h \cdot a)}{n} = k \cdot (h \cdot a).$$

(2) 
$$\int_{a}^{b} \chi dx = \lim_{n \to \infty} \sum_{i=1}^{n} f(\xi_{i}) \cdot dx_{i}$$

$$= \lim_{n \to \infty} \sum_{i=1}^{n} \left(a + \frac{b \cdot a}{n}\right) \left(\frac{b \cdot a}{n}\right)$$

$$= \lim_{n \to \infty} \sum_{i=1}^{n} \left(a + \frac{b \cdot a}{n}\right) \left(\frac{b \cdot a}{n}\right)$$

$$= \lim_{n \to \infty} a \cdot \sum_{i=1}^{n} ax_{i} + \lim_{n \to \infty} \sum_{i=1}^{n} \frac{a \cdot a}{n^{2}} \cdot i$$

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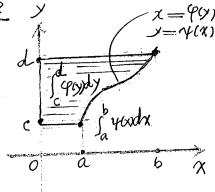
$$= \lim_{n \to \infty} a \cdot \sum_{i=1}^{n} ax_{i} + \lim_{n \to \infty} \sum_{i=1}^{n} ax_{i} + ax_{i}$$

$$= a \cdot (b-a) + \lim_{h \to \infty} (b-a) \cdot \frac{(h(2+\cdots+n))}{n^2}$$

$$= a(b-a) + \lim_{h \to \infty} (b-a)^2 \cdot \frac{\frac{n(n+1)}{2}}{n^2} = a(b-a) + \frac{(b-a)}{2} = \frac{b^2 - a^2}{2}.$$

$$= \frac{b^2 - a^2}{2}.$$

P. 110.2



$$A = \int_{c}^{d} \varphi(y) dy$$

$$B = \int_{a}^{b} \varphi(y) dy + \int_{a}^{b} \varphi(y) dx = A + B = bd - ac.$$