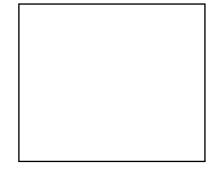
## Calculus Homework Assignment 6

Class 班:\_\_\_\_

Student Number 學號:\_\_\_\_\_

Name 姓名:



1. Which formula is not equivalent to the other two?

$$\mathrm{a.} \sum_{k=2}^4 \, \tfrac{(-1)^{k-1}}{k-1} \, \, \mathrm{b.} \, \sum_{k=0}^2 \, \tfrac{(-1)^k}{k+1} \, \, \mathrm{c.} \, \sum_{k=-1}^1 \, \tfrac{(-1)^k}{k+2}$$

[§5.2 #9]

2.Evaluate the sum.

$$\sum_{k=7}^{30} (\sqrt{k-4} - \sqrt{k-3})$$

[§5.2 #35]

and 
$$\int_0^4 f(z) dz = 7$$
 Find

$$a. \int_3^4 f(z) \, \mathrm{d}z$$

$$b. \int_4^3 f(t) \, \mathrm{d}t$$

[§5.2 #35]

3. Suppose that f is integrable and that  $\int_0^3 f(z) dz = 3$  4. Graph the integrals and use unknown area formulas to evaluate the integrals.

$$\int_{-1}^{1} (2 - |x|) \, \mathrm{d}x$$
 [§5.2 #35]