

Midexam of 130, Oct 12, 2007

Note: You need to show your works in a clear way. A single answer will not gain any credit.

Name (Print):

Signature:

Student ID:

Section:

1.(Points)

2.(Points)

3.(Points)

4.(Points)

5.(Points)

Total Points

I. (20 points.) Use number lines to calculate the followings, and for each problem, draw more than one number line to make your work clear if necessary.

(a). $(-3 - 3) + 10$

(b). $(7 - (-4)) - 8.4$

II. (20 points.) Compare each of the pair of numbers,

(a). $\frac{497}{1000}$ and $\frac{24}{47}$.

(b). $-\frac{28}{51}$ and $-\frac{30}{53}$

III. (25 points.) Use the method of clicking glasses to calculate

$$(115 + 116 + \cdots + 200) - (5 + 6 + \cdots + 40)$$

IV. (25 points.) Kate took an exam together with the other 89 students. Assume every student in the class has a different score. If the curve of the exam is as follows

A	if your score $\geq 85\%$,
AB	if your score $\geq 80\%$,
B	if your score $\geq 60\%$,
C	if your score $\geq 45\%$,
D	if your score $\geq 25\%$,
F	otherwise,

then, to receive the grade B, Kate should have at least the n th highest score in the class. Find the number n .

V. (10 points.) Use algorithms to calculate

$$(31.095 - 22.196) + 0.4031.$$