

Math 21B ESP

Kouba

Quiz 1

Please PRINT your name here : .....

This quiz is due at the beginning of ESP next Tuesday.

1.) (10 pts. each ) Evaluate each of the following sums. Show precise and clear steps for full credit.

a.) 
$$\sum_{i=1}^{100} (4i - 3)$$

b.) 
$$\sum_{i=25}^{75} 5i^2$$

c.) 
$$\sum_{i=1}^{50} \left\{ \frac{1}{\sqrt{i+2}} - \frac{1}{\sqrt{i+3}} \right\}$$

2.) (20 pts.) Use the limit definition of the definite integral to evaluate  $\int_0^3 (x^2 - 2x) dx$ .