

MTH 124.019 Quiz 4  
Friday 12 February 2010

Name:

Show *all* your work. Points will be deducted for incomplete work. Write your answer in the box provided

1. Let  $h(t) = e^t$ . Use at least four data points to estimate  $h'(0)$ . Give your answer to four decimal places.

2. Let  $f(x) = (x + 1)(x - 3)$ . Use the definition of the instantaneous rate of change to give the **exact value** of  $f'(1)$ . (*Hint*: FOIL.)