

Quiz 6

Quiz time limit: 20 min.

Spring 2015

Your name:

Math 0220

Your TA's name:

No calculators, no notes, no books are permitted.

SHOW ALL WORK (no work = no credit). Write neatly. Simplify your answers.

1. [5 points] Use the Midpoint Rule with $n = 3$ to approximate the integral $\int_{1/4}^{7/4} \frac{x}{x+1} dx$

2. [5 points] A particle moves along a line so that its velocity at time $t \geq 0$ is $v(t) = t^2 + 2t - 8$ meters per second. Find the displacement of the particle during the time period $0 \leq t \leq 3$.

bonus problem [5 points extra] In the previous problem find the total distance traveled during the time period $1 \leq t \leq 3$.