

9 am

Quiz 5

Spring 2012

Your name:

Math 0220

Your TA's name:

No calculators. Show all your work (no work = no credit). Write neatly.

1. (5 points) Find $f(x)$ if $f''(x) = 24x^2 + 2x + 10$, $f(0) = 5$, $f'(1) = -3$.

2. (10 points) Evaluate the integrals.

(a) (5 points) $\int_{\pi}^{2\pi} \cos \theta \, d\theta$

(b) (5 points) $\int_1^9 \frac{1}{2x} \, dx$

test problem [10 points] Find the point on the curve $y = 2\sqrt{x}$ that is closest to the point $(5, 0)$. In your solution justify every step.

