

KFUPM.....Math & Stats DeptMath 301-02 (123) ... Quiz #2

ID:..... Name:.....

Exercise #1: Find the work done by the force

$$F = \{3x^2y^2 - y \sin(xy)\} \mathbf{i} + \{2yx^3 - x \sin(xy)\} \mathbf{j}$$
 acting along the curve

$$y = e^x \text{ for } 0 \leq x \leq 2.$$