

KFUPM.....Math & Stats DeptMath 301-03 (123) ... Quiz #2

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

Exercise #1: Find the work done by the force

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

$y = \cos x$ for $0 \leq x \leq 2$.