Name:

Pid:

1. (10 points) Let a curve is described by the equation $e^{x y-1}+x^{2} y=2$. Find a tangent line to the curve at $\langle 1,1\rangle$.

## Solution:

2. (10 points) Find the angle between the planes $2 x+3 y+z=0$ and $x+y+3 z=1$.

Solution:
3. (10 points) Find the integral of $\iint_{R} x \cos (x y)+y \sin (x y) d A$, where $R=[0, \pi] \times[0, \pi]$.

## Solution:

4. (10 points) Find the intersection between the planes $2 x+3 y+z=0$ and $x+y+3 z=1$.

Solution:

