

MATH 361 Quiz 2**Name:**

Show all work. 5 points each.

1. Show the differential equation $(2xy^2 - 3)dx + (2x^2y + 4)dy = 0$ is exact and solve it.

2. Find an integrating factor that turns the non-exact differential equation $(2y^2 + 3x)dx + (2xy)dy = 0$ into an exact one.