

NAME:

Georgia Tech, Fall 2015
Math 2552 (Sections F1 – F4)

Quiz 3

1. Solve the ODE below. Give an *explicit* solution.

$$x \frac{dy}{dx} - 2y = x^4 e^x.$$

2. Solve the ODE below. Give an *implicit* solution in the form $x = f(x, y)$.

$$(y^2 - xy) dx + x^2 dy = 0.$$

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1. Solve the ODE below. Give an *implicit* solution in the form $x = f(x, y)$.

$$xy \, dy = (x^2 + y^2) \, dx.$$

2. Solve the ODE below. Give an *implicit* solution.

$$(y^2x - 3) + (yx^2 + 4) \frac{dy}{dx} = 0.$$