

NAME: .....

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

**Quiz 4**

Solve the ODEs below. Give an *implicit* solution.

1.  $\frac{dy}{dx} = \frac{x}{y} + \frac{y}{x}$ .

2.  $e^{x+y} dx - dy = 0$ .

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**Quiz 4**

Solve the ODEs below. Give an *implicit* solution.

1.  $x \frac{dy}{dx} + (2x + 1)y = e^{-2x}; x > 0.$

2.  $(4y + yx^2) dy - (2x + xy^2) dx = 0.$