

Name: _____

Math 211 Quiz 11

Section: 322

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Dec 13, 2012

1. (10 pts) Find the solution of the differential equation that satisfies the given initial condition.

a. $\frac{dy}{dx} = -\frac{x}{y}, \quad y(0) = 1$ **b.** $y' = -2xy, \quad y(0) = 1$

2. (10 pts) Evaluate the improper integral.

a. $\int_0^{\infty} e^{-0.05t} dt$

b. $\int_{-\infty}^{-1} \frac{1}{x^2} dx$