MATH2860 - Elementary Differential Equations, Spring 2014
Quiz 2 - Solutions
Feb 10, 2014
Printed NAME:

- You have 15 min to complete your quiz.
- Please show r all your work neatly and indicate your final answers clearly If you simply write down the final answer without appropriate intermediate steps, you may not get full credit for that problem.
- The quiz is closed book and notes. Calculators are not allowed.

GOOD LUCK :)
1 Determine the behavior of the solution of the following ordinary differenthral equation when $t \rightarrow \infty$ by solving it first

$$
y^{\prime}+2 t y=2 t e^{-t^{2}}
$$

2. Solve the exact equation

$$
9 x^{2}+y+1-(4 y-x) y=0 \quad=-\left(9 x^{2}+y+1\right) d^{2} x+(-4 y+x) d y
$$

(1)

