Name:_____

Student ID:_____

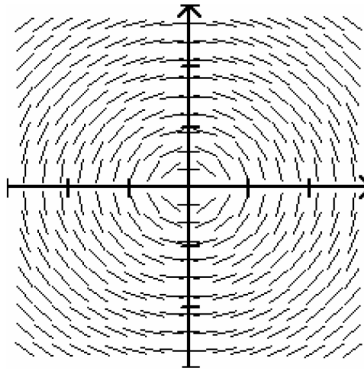# Quiz 3
Mar. 28, 2007

1. (8 pts) Select the differential equation which corresponds to the direction field below.

   A) $y' = -\frac{3}{4y}$ B) $y' = -\frac{3y}{4x}$,

   C) $y' = -\frac{3x}{4y}$ D) $y' = -\frac{3}{y^2}$

2. (2 pts) Solve the initial value problem $y'(t) = 2y(t)$, $y(0) = 0$. $y(t) =$_____

3. (10 pts) Solve the initial value problem $y'(t) = \frac{2t}{y(t)}$, $y(0) = -2$.