Differential Equations Problem Set 5 Exact Differential Equations 2

- 1. Solve each equation.
 - (a) $(x^{2} + y^{2} + x)dx + xydy = 0$ (b) $(y^{2} + y)dx - xdy = 0$
- 2. Each of following equations has an integrating factor of the form $x^m y^n$. For each equation find integrating factor and its solution.
 - (a) ydx xdy = 0
 - (b) $(y^2 xy)dx + x^2dy = 0$