

MA/PHY506 Fall 2015
Problem Set 2
DUE: Monday, 14 September 2015

1. First order ODE: Find the most general solutions to:

(a)

$$(2xy^2 + 2y) + (2x^2y + 2x)y' = 0$$

(b)

$$y' = e^{2x} + y - 1$$

2. Arfken, Chapter 7, pages 341: 7.2.13 and 7.2.18. You can find the seventh edition online at [http : //www.sciencedirect.com/science/book/9780123846549](http://www.sciencedirect.com/science/book/9780123846549). You can google the book and log in using your link blue id.