

All Names: _____

Group nr: ____

Worksheet 06/26 MAP 2302 - Summer B 2019

1. Problem 9, section 3.2, textbook.

2. Again identify (as a group now) the types of the 1st order ODEs on Quiz 1 (see below), and then solve the linear one and the homogeneous one.

(a) $x dy + (x^2y + 2y - 3) dy = 0$

(b) $x^2(y^2 + 1) dx + y(x^3 + 1) dy = 0$

(c) $(\sin x + \sin y) dx + (y + x \cos y) dy = 0$

(d) $\frac{dy}{dx} + 4xy = \frac{x}{y^2}$

(e) $y dx = (4x + 2y) dy$