

M351 AHw§2.2 (S. Zhang) .

1. (2.2:a1) Solve the equation and determine the interval in which the solution is defined.

$$y' = (1 - 2x)y^2, \quad y(0) = -1/6$$

2. (2.2:a2) Solve the IVP. Determine an interval for which the initial value problem is certain to have a unique solution.

$$y' = \frac{2t}{2 - 2y}, \quad y(3) = 2.$$