

## MAP 2302 WRITTEN HOMEWORK #3

Due Monday September 16th, in Canvas

**Question 1.** Find an explicit general solution of the differential equation.

$$(x^4 - x + y) dx + (-x)dy = 0$$

**Question 2.** Find an explicit general solution of the differential equation.

$$\frac{dy}{dx} = \frac{2y}{x} - x^2y^2$$