

Name: Last _____ First _____

1. (7 points) Solve the differential equation. Give the general solution in implicit form.

$$(y^2 + (xy)^2)y' = 1$$

2. (12 points) Solve the initial value problem. Give the solution in explicit form.

$$\frac{dy}{dx} + y = 2xy, y(0) = \pi$$