Name:	Sort #:
Worksheet 6: Exact Equations	,,
MATH 2310. Spring 2019	Grade: / 40

1. (10 pts) Determine whether the equation

$$(2x+4y) + (2x-2y)y' = 0$$

is exact. If it is exact, find the solution.

2. (10 pts) Determine whether the equation

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

is exact. If it is exact, find the solution.

3. (20 pts) Determine if the equation

$$y \, dx + (2xy - e^{-2y}) \, dy = 0$$

is exact. If it is not exact, find an integrating factor and solve it.