**Quiz 3:** No calculators.  Justify all answers.  No partial credit is given for an unexplained and incorrect answer.

1. (3 pts) Is the equation exact? Why or why not?

$$2xy + 2xyy' = -y^2$$

2. (3 pts) Find the general solution to the exact equation:

$$\frac{-x + 4}{(x - 2)^2 + y^2} - \frac{2yy'}{(x - 2)^2 + y^2} = 0$$