Math 225 - Quiz #2: Exact Equations

Clearly and neatly show all work for each problem. Solutions with no work will receive no credit. Implicit solutions are acceptable.

Note: your solution for (2) should contain a non-elementary integral.

(1)
$$(2xy^2 - 3)dx + (2x^2y + 4)dy = 0$$

(2)
$$\left(1 + \ln x - \frac{y}{x}\right) dx + (1 - \ln x) dy = 0$$

(3)
$$(y^2 - 4) dx = (y + xy) dy$$
, $y(0) = 1$

MTH 225 – Heidt MLC Help Allowed