

# Aurora State College of Technology

Department of Engineering Bogy Zabali, Baler, Aurora



# SOLUTIONS OF SOME FIRST ORDER DIFFERENTIAL EQUATIONS: EXACT DIFFERENTIAL EQUATION

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#### MATH 201 - DIFFERENTIAL EQUATIONS





Exact Differential Equation

Consider the differential equation

$$M(x,y)dx + N(x,y)dy = 0.$$

If  $\frac{\partial M}{\partial v} = \frac{\partial N}{\partial x}$  then the differential equation is exact, meaning that the left-hand side is the exact differential of some function.

Total Differential;

$$df = \frac{\partial f}{\partial x} dx + \frac{\partial f}{\partial y} dy$$

$$\frac{\partial f}{\partial x} = M; \ \frac{\partial f}{\partial y} = N; \ df = 0$$

Therefore: Mdx + Ndy = 0

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# MATH 201 - DIFFERENTIAL EQUATIONS



 $f = xy^2 - x^2y + 3x^2 + H(y) \longrightarrow Eq. 3$ 



Example no. 1: Solve the differential equation

$$(y^2 - 2xy + 6x)dx - (x^2 - 2xy + 2)dy = 0.$$

$$\frac{\partial f}{\partial y} = 2xy - x^2 + \frac{\partial H(y)}{\partial y}$$

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