



SOLUTIONS OF SOME FIRST ORDER DIFFERENTIAL EQUATIONS: EXACT DIFFERENTIAL EQUATION

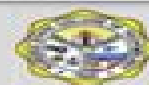
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Engineering Department, Aurora State College of Technology

MATH 201 – DIFFERENTIAL EQUATIONS



Exact Differential Equation

Consider the differential equation

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

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

Total Differential;

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

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

Therefore: $Mdx + Ndy = 0$

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Example no. 1: Solve the differential equation

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

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

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

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