



TUTORIAL 1

ENGINEERING MATHEMATICS 214 (2022)

Topic: Exact Equations (Section 2.4 in Zill)

Problem 1. For each of these equations, determine whether or not it is exact, and if so solve it.

(a) $(2x - 1)dx + (3y + 7)dy = 0$

(c) $(x - y^2 + y^2 \sin x)dx + (3xy^2 + 2y \cos x)dy = 0$

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

(d) $x \frac{dy}{dx} = 2xy^2 - y + 4x^2$

Problem 2. Solve the following initial value problems:

(a) $(x^2 + y)dx + (2 + x + ye^x)dy = 0, \quad y(0) = 1$

(b) $\left(\frac{2y^2 - 4^x}{y^2} \right) \frac{dy}{dx} + \frac{4}{2y^2} = 0, \quad y(1) = 1$

Problem 3. Solve the following differential equations by finding appropriate integrating factors:

(a) $y(x + y + 1)dx + (x + 2y)dy = 0$

(c) $(y^2 + xy^2)dx + (3y^2 - xy + y^2 \sin y)dy = 0$

(b) $-\cos x dx + \left(1 + \frac{y}{x} \right) \sin x dy = 0$

(d) $(x^2 + y^2 - 5)dx = (y + xy)dy, \quad y(0) = 1$

Problem 4. Find functions $M(x, y)$ and $N(x, y)$ such that the following equations are exact:

(a) $M(x, y)dx + \left(xe^{xy} + 2xy + \frac{1}{x} \right) dy = 0$

(b) $\left(x^{-3/2}y^{1/2} + \frac{x^2}{y^2 + y} \right) dx + N(x, y) dy = 0$

Problem 5. Fridrik Höfnir and Wimpie van der Merwe are playing a game involving the following differential equation:

$$(ax + by)dx + (cx + dy)dy = 0.$$

They take turns choosing real values for one of the unknowns a , b , c , and d , with Fridrik going first, and the game ends once all three have been given values. Fridrik wins if the final differential equation is not exact, while Wimpie wins if it is exact. Can either of these two gentlemen ensure that they always win the game, and if so what is their strategy?

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JE Gale



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