

Assignment # 02

1) $(y \sec^2 x + \sec x \tan x)dx + (\tan x + 2y)dy = 0$

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

3) $\frac{dy}{dx} + \frac{y}{x \ln x} = \frac{3x^2}{x \ln x}$

4) $\frac{dy}{dx} = \frac{1}{e^y - x}$

5) $x \frac{dy}{dx} - 2x^2 y = y \ln y$

6) $x \frac{dy}{dx} + 3y = x^3 y^2, \quad y(1) = 2$

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

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

(submission date is 14th May)

Preview from Notesale.co.uk
Page 1 of 1