

DIFFERENTIAL EQUATIONS (PRACTICE PROBLEMS)

1. Solve the equation $(6x + y^2)dx + y(2x - 3y)dy = 0$

(a) $xy^2 + 3x^2 - y^3 = C$
 c. $xy^2 + 2x^2 - 3y^3 = C$

b. $3xy^2 - 3x^2 - y^3 = C$
 d. $xy^2 + 3x^2 - y^3 = C$

Sol:

$$(6x + y^2)dx + y(2x - 3y)dy = 0$$

$$M = 6x + y^2 \quad N = 2xy - 3y^2$$

$$\frac{\partial f}{\partial x} = 6x + y^2 \text{ (1)} \quad \frac{\partial f}{\partial y} = 2xy - 3y^2 \text{ (2)}$$

$$\partial f = (6x + y^2)dx + (2xy - 3y^2)dy$$

$$f = \frac{6x^2}{2} + xy^2 + g(y)$$

$$f = 3x^2 + xy^2 + g(y) \text{ (3)}$$

$$\partial f = 2xy dy - 3y^2 dy$$

$$f = \frac{2xy^2}{2} - \frac{3y^3}{3} + g(x)$$

$$f = xy^2 - y^3 + g(x) \text{ (4)}$$

Eq. 3 = Eq. 4

$$3x^2 + xy^2 + g(y) = xy^2 - y^3 + g(x)$$

$$g(y) = -y^3$$

$$g(x) = 3x^2$$

Substitute:

$$3x^2 + xy^2 + g(y) = C$$

$$3x^2 + xy^2 - y^3 = C$$

$$\boxed{\text{a.) } xy^2 + 3x^2 - y^3 = C}$$

or

$$xy^2 - y^3 + g(x) = C$$

$$xy^2 - y^3 + 3x^2 = C$$

$$\boxed{\text{a.) } xy^2 + 3x^2 - y^3 = C}$$

2. Solve the equation $(r + \sin \theta - \cos \theta)dr + r(\sin \theta + \cos \theta)d\theta = 0$

a. $r^2 + r(\sin \theta + \cos \theta) = C$

(b) $r^2 + 2r(\sin \theta - \cos \theta) = C$

c. $r - 2r(\sin \theta - \cos \theta) = C$

d. $r^3 + 2r(\sin \theta + \cos \theta) = C$

Sol:

$$(r + \sin \theta - \cos \theta)dr + r(\sin \theta + \cos \theta)d\theta = 0$$

$$(r + \sin \theta - \cos \theta)dr + (\sin \theta + \cos \theta)r d\theta = 0$$

$$(r)dr + (\sin \theta - \cos \theta)dr + (\sin \theta r + \cos \theta r)d\theta = 0$$

↓

N.D.I

N.D.I

$$\int D.I + \int N.D.I = \int 0 \rightarrow \int r dr + \int (\sin \theta r + \cos \theta r) = \int 0$$

$$\frac{r^2}{2} + (-\cos \theta r + \sin \theta r) = 0 \rightarrow \left[\frac{r^2}{2} + \sin \theta r - \cos \theta r = 0 \right] 2$$

$$r^2 + 2r \sin \theta - 2r \cos \theta = C \rightarrow \boxed{\text{b.) } r^2 + 2r(\sin \theta - \cos \theta) = C}$$

Differential Equations Problem Solv Volume

Jiyuan Zhang



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