

## 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:

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

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

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

$$\int \frac{\partial f}{\partial x} = \int (6x + y^2) dx$$

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

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

$$\int \frac{\partial f}{\partial y} = \int (2xy - 3y^2) dy$$

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

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

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:

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

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

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

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

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

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

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**Marcel A. Müller**



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web general acme thread design calculator major dia external thread d must be greater than 25 pitch thrs per inch n basic dimension data basic pitch dia e basic minor diameter k pitch decimal distance p thickness at pitch line t

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web the trapezoidal metric thread form is similar to the acme thread form except the thread angle is 30 4 5 6 it is codified by din 103 7 while metric screw threads are more prevalent worldwide than imperial threads for triangular thread forms the imperially sized acme threads predominate in the trapezoidal thread form

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web external acme thread dimensions table acme thread designation nominal size threads in tol class major diameter pitch diameter minor diameter max min max min max min 1 4 16 acme 0 25 16 2g 0 2500 0 2450 0 2148 0 2043 0 1775 0 1618 3g 0 2158 0 2109 0 1701 4g 0 2168 0 2133 0 1723 5 16 14 acme 0 3125 14 2g 0

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web this acme thread general purpose design calculator will determine the three classes of general purpose 2g 3g and 4g for the external and internal threads in application it is suggested that external and internal threads of the same class be used together for general purpose assemblies class 2g being the preferred choice