

CHAPTER 1
ELIMINATION OF ARBITRARY CONSTANTS

1. $x^2 - 2x^2y = c$

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

$$2x^2 dx - 4xy dx - 2x^2 dy = 0$$

divide by dx ,

$$2x^2 - 4xy - 2x^2 \frac{dy}{dx} = 0$$

$$\therefore (x + 2y) dx - x dy = 0 \quad \text{ans.}$$

2. $y \sin x - xy^2 = 0$

$$y(\cos x dx) + \sin x dy - dy dy = 0$$

$$+ y^2 dx = 0$$

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

$$y(\cos x - y) dx + (\sin x - 2y) dy = 0 \quad \text{ans.}$$

3. $x^2 y = 1 + Cx$

$$x^2 dy + 2xy dx = 0 + C dx$$

divide by dx ,

$$\frac{d^2 y}{dx^2} + 2xy = C$$

substitute

$$x^2 y = 1 + Cx \Rightarrow \left[x^2 \frac{d^2 y}{dx^2} + 2xy \right] x$$

$$x^3 y = 1 + x^2 \frac{d^2 y}{dx^2} + 2x^2 y$$

$$x^3 y dx = dx + x^3 dy + 2x^3 y dx$$

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

$$dx + x^3 dy + x^3 y dx = 0$$

$$\therefore (x^3 y + 1) dx + x^3 dy = 0 \quad \text{ans.}$$

4. $cy^3 = x^2 + y$

$$\frac{x^2 + y}{y^3} = C$$

$$\frac{x^2(2x dx) + (1 + y) dy}{(y^3)^2} = 0$$

$$2xy^2 dx + y^2 dy + dy dy - 2y^2 dy = 0$$

divide by y ,

$$2xy dx + y dy - dy dy - 2y dy = 0$$

$$\therefore 2xy dx - 2y dy = 0 \quad \text{ans.}$$

5. $x = A \sin(\omega t + \phi)$; ω is a parameter not to be elim.

$$\frac{dx}{dt} = A \omega \cos(\omega t + \phi)$$

$$\frac{d^2 x}{dt^2} = A \omega^2 [-\sin(\omega t + \phi)]$$

$$= -A \omega^2 \sin(\omega t + \phi)$$

$$\text{but } x = A \sin(\omega t + \phi)$$

$$\frac{d^2 x}{dt^2} = -\omega^2 x$$

$$\therefore \frac{d^2 x}{dt^2} + \omega^2 x = 0 \quad \text{ans.}$$

6. $x = C_1 \cos \omega t + C_2 \sin \omega t$
Let ω be parameter.

$$\frac{dx}{dt} = -C_1 \omega \sin \omega t + C_2 \omega \cos \omega t$$

$$\frac{d^2 x}{dt^2} = -C_1 \omega^2 \cos \omega t - C_2 \omega^2 \sin \omega t$$

$$= -\omega^2 (C_1 \cos \omega t + C_2 \sin \omega t)$$

$$= -\omega^2 x$$

$$\therefore \frac{d^2 x}{dt^2} + \omega^2 x = 0 \quad \text{ans.}$$

7. $y = Cx + C^2 + 1$

$$y' = C + 2C \frac{dy}{dx} \quad \therefore C = y'$$

$$\therefore y = y'x + (y')^2 + 1 \quad \text{ans.}$$

8. $y = \sin x + \frac{1}{x^2}$; ω is a parameter, ω to be eliminated.

$$y' = \cos x - \frac{2}{x^3} \quad \therefore \cos x = y'$$

$$\therefore y = \sin x = \frac{1}{y'}$$

9. $y^3 = 4ax$

$$3y^2 dy = 4a dx$$

$$\therefore \frac{dy}{dx} = \frac{4a}{3y^2}$$

substitute,

$$y^3 = \left(\frac{4a}{3y^2} \right)^2 x$$

$$y^3 dx = 3a dy$$

$$\therefore y^3 dx - 3a dy = 0 \quad \text{ans.}$$

10. $y = 4x^2 + 3x + C$

$$y' = 8x + 3 \quad \therefore x = \frac{y' - 3}{8}$$

$$y = 4x^2 + 3x + C$$

$$y'' = 8 \quad \text{ans.}$$

Rainville Solution Manual

Arthur James Wells



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web feb 14 2023 tableau des bonnes et mauvaises associations entre légumes au potager pour un tableau méga complet je vous propose d'aller voir cette page et pour des visuels d'associations de légumes vous pouvez aller ici les fleurs et aromates qui aident au potager de nombreuses fleurs sont d'étonnantes compagnes au potager

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web oct 14 2010 oeilletons d'inde dans le potager au moment de semer ou de planter dans le potager associez des plantes qui ne sont pas de la même famille et donc a priori pas sensibles aux mêmes parasites ou maladies il faut veiller à ce que les plantes ne se gênent pas dans une même planche il convient de regrouper les végétaux qui exigent un

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association légumes potager greenweez - Jun 01 2022

web may 8 2023 associations d espace pour les légumes du potager l association d espace est la préférée des légumes dans les potagers de balcon ou de petits jardins elle permet d organiser les plantations selon la pousse de chacune pour optimiser l occupation du sol et l ensoleillement

potager productif les bonnes et mauvaises associations de - Aug 03 2022

web mar 16 2023 potager productif les associations de légumes qui nuisent aux récoltes et celles qui les boostent quel jardinier n a déjà pas entendu qu il fallait planter des fraises aux côtés des

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web potager les associations bénéfiques voici une liste non exhaustive des groupes de légumes qui ont intérêt à être associés n hésitez pas à planter ensemble asperges tomates poireaux et persil betteraves haricots et radis artichauts et laitue carottes ciboulette aneth oignons ail et petits pois courgettes courges

bien associer légumes fleurs et plantes aromatiques rustica - Dec 07 2022

web mar 3 2014 les légumes les aromatiques ainsi que les fleurs agissent essentiellement sur les parasites parfois sur les maladies n hésitez pas à en tenir compte vous améliorerez la qualité du potager les traitements étant plus limités

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les meilleures associations de légumes et de plantes pour le potager - Apr 30 2022

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associations dans votre potager vous permettra donc d'éviter les nuisibles et de favoriser la pousse vos fruits et vos légumes seront alors protégés de manière naturelle et pousseront de manière optimale