**Expert ID/Name: Nstructive**

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**C:\Users\chari\Desktop\27.PNG**

**Answer:**

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| **Section 1:** Algorithm/Theorem Reminder / A tip for solving these type of questions. |

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| Tips:  1. Separate the terms of.  2. Apply the integration on both sides.  3. |

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| **Section 2:** Step-by-step answer. |
| Given: differential equation is  To find: The General solution of differential equation is  Explanation: -  Step 1:   |  |  | | --- | --- | | Instruction | Separate the terms dy and dx. | | Calculation |  |   Step2:   |  |  | | --- | --- | | Instruction | Apply the integration on both sides. | | Calculation | In  Therefore, |   Step3:   |  |  | | --- | --- | | Instruction | Use the formula: | | Calculation | In  Therefore,    Which is the required general solution of given differential equation. | |
| Conclusion: General solution of differential equation  is .  Hence, verified. |