**Expert ID/Name: Nstructive**

**Date: 09-Nov-2020**

**C:\Users\chari\Desktop\25.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 and when  To find: The Particular solution of differential equation is and and when and find the value of when.  Explanation: -  Step 1:   |  |  | | --- | --- | | Instruction | Separate the terms dy and dx. | | Calculation |  |   Step2:   |  |  | | --- | --- | | Instruction | Apply the integration on both sides. | | Calculation | . |     Step 3:   |  |  | | --- | --- | | Instruction | Substitute in  hence get the value of | | Calculation | Take |     Step 3:   |  |  | | --- | --- | | Instruction | Form the particular solution of by substituting the values of | | Calculation | Given, and we found | |
| Conclusion: - The value of is  Hence, verified. |