**Expert ID/Name: Nstructive**

**Date: 09-Nov-2020**

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**C:\Users\chari\Desktop\20.PNG**

**Answer:**

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| Answer for Short / Simple / Direct Question. |

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

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| 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 and solve by following the method of substitution of integration.  Use the formula: | | Calculation | In  put    Similarly, |   Step3:   |  |  | | --- | --- | | Instruction | Substitute the values of and simplify. | | Calculation | Which is the required general solution of given differential equation. | |
| Verified Answer: - general solution of differential equation  is.  Hence, verified. |