**Expert ID/Name: Nstructive**

**Date: 09-Nov-2020**

**C:\Users\chari\Desktop\10-23.PNG**

**C:\Users\chari\Desktop\21.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 the 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 use the substitution method of integration. | | Calculation | In  , put  . |     Step3:   |  |  | | --- | --- | | Instruction | Use the substitution method of integration in | | Calculation | In , put    . |   Step4:   |  |  | | --- | --- | | Instruction | Apply the values of and then simplify. | | Calculation | Which is the required general solution of given differential equation. | |
| Verified Answer: - general solution of differential equation  is .  Hence, verified. |