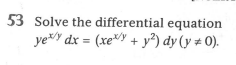
**Expert ID/Name: Nstructive**

**Date: 10-Nov-2020**

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**Answer:**

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| Short answer type question. |

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| Tips:  1.Make subject as    3.Recall the method of solving the homogeneous differential equation. |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Given: Differential equation is  To find: General solution of Differential equation is  Explanation: -  Step1:   |  |  | | --- | --- | | Instruction: | Make subject as | | Calculation: | Given differential equation is |   Step2:   |  |  | | --- | --- | | Instruction:  Instructions: | Clearly it is a homogeneous equation.  Put and then differentiate with respect to on both sides.  Substitute the values of and  in. | | Calculation: |  |     Step3:   |  |  | | --- | --- | | Instruction: | Apply the integration on both sides. | | Calculation: |  |     Step 4:   |  |  | | --- | --- | | Instruction: | Now, substitute  in , since . | | Calculation: |  | |
| Verified Answer: - General solution of differential equation  is.  Hence, verified. |