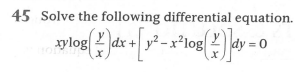
**Expert ID/Name: Nstructive**

**Date: 10-Nov-2020**

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**Answer:**

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| Short answer type question. |

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| Tips:  1. Recall the method of solving the homogeneous differential equation.  2. |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Explanation: -  Given : Differential equation is  To find : General solution of the differential equation is  Explanation:  Step 1:   |  |  | | --- | --- | | Instruction | Find from | | Calculation |  |   Step2:   |  |  | | --- | --- | | Instruction: | 1.Clearly it is a homogeneous equation.  2.follow the method of solving the homogeneous differential equation. | | Calculation: |  |     Step3:   |  |  | | --- | --- | | Instruction: | Apply the integration on both sides.  Use the formula: | | Calculation: | In , |     Step3:   |  |  | | --- | --- | | Instruction: |  | | Calculation: | Now,  By substituting, we get  Hence, required general solution is | |
| Conclusion: -  General solution of differential equation is  .  Hence, verified. |