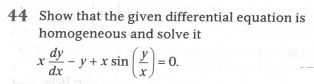
**Expert ID/Name: Nstructive**

**Date: 10-Nov-2020**

****

**Answer:**

|  |
| --- |
| **Section 1:** Algorithm/Theorem Reminder / A tip for solving these type of questions |
| **Tips:**   1. In a differential equation, if then is a homogeneous differential equation. 2. Substitute and verify |

|  |
| --- |
| **Section 2:** Step-by-step answer |
| Given: Differential equation is  To prove:  is a Homogeneous differential equation  Step 1:   |  |  | | --- | --- | | Instruction | Find from | | Calculation |  |   Step 2:   |  |  | | --- | --- | | Instruction | Put . | | Calculation | Hence it is a Homogeneous differential equation. | |

|  |
| --- |
| **Section 3:** |
| Conclusion:  is a homogeneous differential equation |