**Expert ID/Name: Nstructive**

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**C:\Users\chari\Desktop\19.PNG**

**Answer:**

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| **Section 1:** Algorithm/Theorem Reminder / A tip for solving these type of questions |
| Tips:  Differentiate with respect to “x” on both sides.  . 2 In an equation, if there are n-number of arbitrary constants then we need to do the differentiation in n- number of times. |

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| **Section 2:** Step-by-step answer |
| Given:  To verify: The function  is a solution of differential equation  Explanation:  Step 1:   |  |  | | --- | --- | | Instruction | Take and do differentiate with respect to “x” on both sides. | | Calculation |  |   Step 2:   |  |  | | --- | --- | | Instruction | Differentiate  with respect to “x”. | | Calculation |  | |
| Conclusion: The function  is a a solution of differential equation |
| Hence, Verified. |