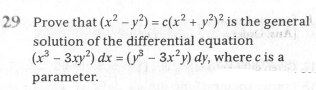
**Expert ID/Name: Nstructive**

**Date: 05-Nov-2020**

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**Answer:**

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| **Section 1:** Algorithm/Theorem Reminder / A tip for solving these type of questions |
| Tips:  Differentiate the function  with respect to “x” on both sides in two times.  Substitute the value of  in simplification. |

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| **Section 2:** Step-by-step answer |
| Given:  To prove: 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 | Given, ,So | | Calculation |  | |
| Step 3 :   |  |  | | --- | --- | | Instruction | Separate terms of . | | Calculation |  | |

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| Conclusion: The function  is a solution of differential equation |
| Hence, verified. |