**Expert ID/Name: Nstructive**

**Date: 05-Nov-2020**

**C:\Users\chari\Desktop\22.PNG**

**Answer:**

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| Short answer type question. |

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| Tips:   1. 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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| Given: Differential equation representing the family of curves is, where are arbitrary constants.  To find\determine\prove: Form the differential equation of  Step1:   |  |  | | --- | --- | | Instruction | Differentiate the differential equation with respect to “ ”. | | Calculation |  |   Step :   |  |  | | --- | --- | | Instruction | Differentiate the differential equation with respect to “ ”. | | Calculation | is the required differential equation. | |
| Conclusion: -  is the differential equation of .  Hence, verified the answer. |