**Expert ID/Name: Nstructive**

**Date: 05-Nov-2020**

C:\Users\chari\Desktop\30.PNG

**Answer:**

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| Short answer type question |

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| --- | --- | --- | --- | --- |
| Given: The equation of family of curves,  , Where  are arbitrary constant .  To find\determine\prove: Form the differential equation of  Explanation: -  Step1:   |  |  | | --- | --- | | Instruction | Make subject is and differentiate the differential equation with respect to “ ”. | | Calculation |  | |

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| --- | --- | --- | --- | --- |
| Step 2:   |  |  | | --- | --- | | Instruction | Substitute  in. | | Calculation | Hence, The required differential equation is . | |
| Verified Answer: -  The differential equation of  is .  Hence verified. |