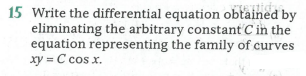
**Expert ID/Name: Nstructive**

**Date: 04-Nov-2020**

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| Short answer type question. |



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| Tips for Solution:  1. In an equation, if there are “n” number of arbitrary constants then we need to do the differentiation in “n” number of times.  2.  3. |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Given: The equation of all curves,  , Where  are arbitrary constant .  To find\determine\prove: Form the differential equation of  Explanation: -  Step1:   |  |  | | --- | --- | | Instruction | Differentiate the differential equation with respect to “ ”. | | Calculation | ………(1) |   Step2:   |  |  | | --- | --- | | Instruction | Substitute the value of in | | Calculation | Thus the required differential equation is  . | |
| Verified Answer: -  Differential equation of is |