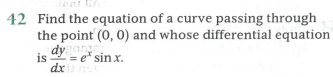
**Expert ID/Name: Nstructive**

**Date: 10-Nov-2020**

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**Answer:**

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| --- |
| Short answer type question. |

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| Tips:  1. Form the differential equation by using given condition.  2. Apply the integration on both sides.  3. Substitute the point in the solution of differential equation.  4. |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Explanation: -  Given :  The coordinates of the point  be .  Given differential equation is  Step1:   |  |  | | --- | --- | | Instruction: | Separate the variables of and apply the integration on both sides. | | Calculation: |  |   Step2:   |  |  | | --- | --- | | Instruction: | . | | Calculation: | In |   Step3:   |  |  | | --- | --- | | Instruction: | Calculate the value of by substituting the value and then find the required solution. | | Calculation: | Which is passing through point    Hence the required equation is | |
| Verified Answer: - Particular solution of differential equation  is .  Hence, verified. |