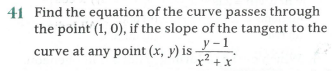
**Expert ID/Name: Nstructive**

**Date: 10-Nov-2020**

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**Answer:**

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| **Section 1:** Algorithm/Theorem Reminder / A tip for solving these type of questions.. |

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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. |

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| **Section 2: Step by step procedure.** |
| Explanation: -  Given :  The coordinates of the point  be .  Slope of the tangent to the curve at the point is  We know that Slope of the tangent is at is .  Step1:   |  |  | | --- | --- | | Instruction: | Separate the variables of and apply the integration on both sides. | | Calculation: |  |   Step2:   |  |  | | --- | --- | | Instruction: | Calculate .  . | | Calculation: |  |     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 | |
| Conclusion: - Particular solution of differential equation  is.  Hence, verified. |