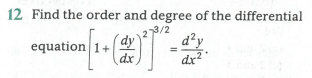
**Expert ID/Name: Nstructive**

**Date: 04 – Nov -2020**

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| Short answer type question |



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| --- |
| Given : differential equation is  To find : The order and degree of the differential equation  Explanation:-  **Order is the highest derivative occurring in the differential equation.**  **Degree is the highest order derivative in the differential equation** |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Explanation: -  Step :   |  |  | | --- | --- | | Instruction | Squaring on both sides and then simplify it. | | Calculation |  |   Step :   |  |  | | --- | --- | | Instruction | **Order is the highest derivative occurring in the differential equation.**  **Degree is the highest order derivative in the differential equation** | | Calculation | In  Highest order derivative is .  Therefore, Order of is.  The power of  in is.  So, degree of is. | |
| Verified Answer: -  Order  Degree |