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| --- | --- |
| **01** | Write the formula for the Runge-Kutta Method |
|  | Taken in the given order. Then  In the similar manner the increment in y for the second interval is computed by the following formulas:    And similarly for the next interval. |
|  |  |
| **02** | **Use Runge-Kutta method to approximate y, when  and  given that  when  and .**  **Solution:** Let us take h= 0.1, Here  Now  ,    =  Thus  Now for the second interval, We have            Hence |