**诚信应考,考试作弊将带来严重后果！**

姓名 学号  学院 专业 座位号

( 密 封 线 内 不 答 题 )

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**华南理工大学期末考试**

**《20231204 Calculus Review Integral》试卷**

**注意事项：1. 考前请将密封线内填写清楚；**

**2. 所有答案请直接答在试卷上(或答题纸上)；**

**3．考试形式：闭卷；**

**4. 本试卷共 8 大题，满分100分， 考试时间120分钟**。

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **题 号** | **1,2** | **3, 4** | **5, 6** | **7, 8** | **9, 10** | **总分** |
| **得 分** |  |  |  |  |  |  |
| **评卷人** |  |  |  |  |  |  |

1. Answer the questions (26):

(1) Find the integral 

(2) Find the integral 

(3) Find the integral 

(4) is continuous, try to prove that



(5) Find the integral .

(6) Find the integral , ()

(7) Find the integral 

(8) Find the integral 

(9) Find the integral 

(10) Find the integral 

(12) If is continue and 2 second differentiable on and



Find  and there exist 

(13) If is continue on , show .

1. Find the integral 
2. If is differentiable on and .

there exist 