

**Monthly Test 1**

**Math 1050**

**Total score : 20**

**Credit : 20 %**

**Duration : 1 hour**

**Kingdom of Saudi Arabia**

**Ministry of Higher Education**

**Salman bin Abdulaziz University**

**Preparatory Year Deanship**

**Basic Sciences Department**

Test Booklet

|  |  |
| --- | --- |
| Questions Number | Score |
| **1** |  |
| **2** |  |
| **3** |  |
| **4** |  |
| **5** |  |
| **6** |  |
| **7** |  |
| **Total** |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Name:** |  | | | | | | | | |
| **Student No:** |  |  |  |  |  |  |  |  |  |
| **Section No:** |  | | | | | | | | |
| **Group:** |  | | | | | | | | |
| **Instructor’s Name:** |  | | | | | | | | |

**This test booklet contains 4 pages**

1) **(a)** In each part of the accompanying figure , determine whether the graph defines

as a function of . [ 3 ]







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**(b)** Solveand graph its solution **.** [ 2 ]

**(c)** Let and , evaluate and . [ 2 ]

**(d)** Find the domain and the range of the function  **.** [ 3 ]

2) **(a)** Compute the following limits.

**1)** [ 2 ]

**2)** [ 2 ]

**3)** [ 2 ]

**(b)** Show that the following functionis continuous at **.**

[ 4 ]

**With my best wishes**