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| **MAT 101:** Differential and Integral Calculus (Sec-4)  Department of Computer Science and Engineering  University of Liberal Arts Bangladesh | | | |
| **Course Title:** Differential and Integral Calculus | | **Course Code:** MAT 101 | |
| **Total Marks:** 20 | | **Time:** 50 minutes | |
| **Name:** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | **ID:** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

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| 1. In each part, classify the function as even, odd, or neither. | | 6 |
|  |  | |
| 1. Find the limits. | | 8 |
|  | 1. Let   Find | |
|  |  | |
| 1. Consider the functions   and  In each part, is the given function continuous at x = 4? | | 6 |
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