**Subject: Advanced Mathematics 1**

### EXERCISES - CHAPTER 01: Functions and Limits

Book: **Essential** **Calculus**

Author: **James Stewart**

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**Total: 22 exercises**

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| ***Page*** | ***Exercises*** |
| 8 | **4**. Determine whether the curve is the graph of a function of x.  If it is, state the domain and range of the function. |
| 9 |  |
| 23 |  |
| 33 | **4**.    **12**. Guess the value of the limit (if it exists) by evaluating the function at the given numbers (correct to six decimal places). |
| 44 | **11-24**. Evaluate the limit, if it exists.      **30**.    **34**. Find the limit, if it exists. If the limit does not exist, explain why. |
| 45 |  |
| 54 |  |
| 67 |  |
| 68 | **38**. Find a formula for a function that has vertical asymptotes x = 1 and x = 3 and horizontal asymptote y = 1. |