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| <b>Program:</b> BS (AI & SE)                  | <b>Examination:</b> Assignment 1 |
| <b>Semester:</b> Fall-2023                    | <b>Total Marks:</b> 2.5          |
| <b>Course:</b> Calculus & Analytical Geometry | <b>Date:</b>                     |

Book: **Single Variable Calculus 9th Edition** by James Stewart, Daniel K. Clegg and Saleem Watson

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1. **Appendixes** (Exercise page A9)

Q9, Q10, Q12, Q17, Q24, Q27, Q30, Q34, Q38, Q39, Q45, Q46, Q49, Q52, Q54, Q56, Q61

2. **(Exercise 1.1, page 17)**

Study and Practice (No need to submit the questions in blue color, do at least 8 questions in red color for assignment)

Q4, Q14 to Q18, Q27, Q28, Q33

Q38, Q39, Q40, Q42, Q46, Q47, Q50, Q53, Q54, Q57, Q59, Q81, Q82, Q85,

3. **(Exercise 1.2, page 33)**

Q14, Q17,

Sketch graph of each function

- $y = x + 1$ ,  $y = 2x + 3$ ,  $y = 2x - 1$
- $y = x^2$ ,
- $y = x^3$
- $y = x^4$
- $y = \sqrt{x}$
- $y = x^{1/3}$
- $y = 1/x$
- $y = 1/x^2$