Assignment I

Section	Practice Problems	Submission Problems
10.1	7, 8, 14, 16	10, 15, 19–24
10.2	3, 8, 11, 18–20, 21, 23, 31–32, 34, 47	9, 22, 35, 43
10.3	28, 41, 44, 46, 54, 58, 63, 66	12, 45, 37, 65
10.5	6, 9, 11, 21, 24, 27	15, 23, 33, 58
10.6	11, 17, 23, 28, 32, 42	14, 19, 31
10.7	45, 52, 61, 64	32, 37, 47, 63

Text: Thomas' Calculus (15th Edition)

Additionally:
Create the following plots in GeoGebra. If you have trouble getting started, see online videos and/or seek the Instructor's help. You may have a viva from this.
Check out wikipedia on how to make these.

1. Cardioid

2. Cyclogon

3. Cycloid

4. Astroid

5. Prolate trochoid

You should know how to do the following in GeoGebra:

- Create variables

- Create sliders (You should be able to control the width of the circle using a slider as well as the length of the arc)

- Plot curves through parametric equations

Due Date: Oct 2, 2025   Submit to: Mr. Aamir Shehzad, FBS