| Name: | | |
|------------------------|------|------|
| Student ID: | | |
| Lecturer: | | |
| Recitation Instructor: | | |
| Recitation Time: | | |

Instructions:

- 1. This package contains 11 problems worth 9 points each.
- 2. Please supply <u>all</u> information requested above. You get 1 point for supplying all information correctly.
- 3. Work only in the space provided, or on the backside of the pages. Circle your choice for each problem in this booklet.
- 4. No books, notes, or calculator, please.

$$\ln(1+x) = \sum_{n=1}^{\infty} \frac{(-1)^{n-1}}{n} x^n, \quad |x| < 1$$

$$\sin x = \sum_{n=0}^{\infty} \frac{(-1)^n}{(2n+1)!} x^{2n+1}$$

$$\cos x = \sum_{n=0}^{\infty} \frac{(-1)^n}{(2n)!} x^{2n}$$

$$(1+x)^k = \sum_{n=0}^{\infty} \binom{k}{n} x^n, \quad |x| < 1$$

1.C 2.C 3.COVE 4.B 5.A 6.B 7.C 8.E 9.D 10.B 11.A