$\qquad$

```
Test No. }
```

November 24, 1997

The test contains 7 questions. Please, write your solutions in such a way that the reader can follow your reasoning and check your computations. Every statement must be justified in order to receive full credit. If the space under the question is insufficient, use the reverse of the preceding sheet or the blank sheets at the end of the booklet.

The use of books or notes and mutual help is not permitted during the test. You may use calculators.

Remember that you are bound by the Notre Dame Honor Code.

## Scores

| Question | Possible | Actual |
| :---: | :---: | :---: |
| 1 | 20 |  |
| 2 | 15 |  |
| 3 | 15 |  |
| 4 | 20 |  |
| 5 | 15 |  |
| 6 | 15 |  |
| Extra credit | 20 |  |
| Total | $100+20$ |  |

Letter grade.

