Instructions and Remarks:

- Have fun — enjoy solving a variety of challenging problems.
- There is no required minimum number of problems to be solved, but please do as many of the following problems as you can in two hours.
- It is not expected that all problems be completed — five solutions might be a reasonable goal.
- Quality work is more important than quantity.
- Brief solutions displaying insight are especially desirable.
- Partial solutions or commentary will also be welcomed.
- Calculators are permitted.
- Please ease our task of evaluating your work by
  - writing complete and grammatical sentences,
  - labeling diagrams and plots,
  - beginning each problem’s solution on a fresh sheet of paper,
  - writing legibly with a dark pencil or pen.
- Please write on only one side of a page.
- Complete this cover-sheet and hand it in together with your work.
  (You may keep the two pages which state the problems.)

Please circle the number of each problem you attempted.

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