

Show all appropriate work.

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1. Problems from the book:
  - (a) Section 9.1: 3, 6.
  - (b) Section 9.6: 2, 3, 15, 23.
  - (c) Section 11.1: 36, 37, 42, 44.
  - (d) Section 11.3: 16, 19, 25.