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Show all appropriate work.

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1. Problems from the book:

- (a) Section 6.2: 38.
- (b) Section 6.3: 2, 8, 16, 24(b), 32.
- (c) Section 5.10: 5, 12, 14, 34.
- (d) Section 4.5: 1, 8, 14, 29, 30.