18.100A Fall 2012: Assignment 24

As before, list collaborators, if any; it's illegal to consult assignment solutions from previous semesters.

Reading: 26.2-.3; 21.3 Leibniz' formula, Fubini's theorem. Gamma function.

1. (1) Work 26.2/2 .

2. (2) Work 26.2/5 . Don't forget the initial conditions.

3. (1) Work 26.3/1 .

4. (2) Work 26.3/2 .

5. (2) Work Questions 21.3/1,2 ; if possible without consulting the solutions.

6. (2: .5, 1.5) Work 21.2/5ab .

For (b), look first for a simple non-negative discontinuous function which has the other desired properties, then alter it so as to make it continuous without destroying its other desired properties; then finally alter it again to make it positive, still retaining the other desired properties.

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