## Suggested problems 21

Instructor: Alena Erchenko

- 1. Use the method of Laplace transform to solve each initial value problem
  - (a)  $y' + 10y = t^2, y(0) = 0;$
  - (b) y'' + 4y' 5y = 0, y(0) = 5, y'(0) = -1;
  - (c)  $y'' + 2y' = te^{-t}, y(0) = 6, y'(0) = -1.$