

**MATH 10B, SPRING 2017, QUIZ 10**

Solve the following differential equations.

(1)  $y'' + 7y' + 10y = 0$  with initial conditions  $y(0) = 1$  and  $y'(0) = 1$ .

(2)  $ty' - 4y = t^2$

(3)  $t^2y' = -y^2$