

What is the best statement that you can make about the solution

a)  $y'' + \sin(t)y' + (1+t)^{-1}y = (2+t)^{-1}$   
 $y(0)=1 \quad y'(0)=5$

b)  $t^2 y'' + y' + y = 1 \quad y(-1)=1 \quad y'(-1)=3$

c)  $(1+t^2)y'' + 2y' + y = e^t \quad y(0) \quad y'(0)=0$