

Quiz 3  
Feb 26, 2016

Show your work

[10] 1.) Solve  $y'' - 6y' + 9y = 0$

Answer: \_\_\_\_\_

[10] 2.) Find a suitable form for  $\psi$  for  $y'' - 6y' + 9y = 2e^{4t}\cos(8t)$  where  $y = \psi(t)$  is a solution to this differential equation for appropriate constants  $A$  and  $B$  if the method of undetermined coefficients is used. You do NOT need to solve for  $A$  and  $B$ .

Answer: \_\_\_\_\_