

Quiz 2  
Feb 19, 2016

Show your work  
Circle your answer.

[10] 1.) Given that  $y(t) = \frac{1}{t}$  and  $y(t) = t^{\frac{3}{2}}$  are solutions to  $2t^2y'' + ty' - 3y = 0$ , state the general solution to this 2nd order homogeneous linear differential equation:

[10] 2.) Solve:  $y' = y\cos(x)$ .