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method plug the guess into the differential equation and see if we can **differential equations matlab simulink example mathworks** Nov 08 2020 the equation is written as a system of two first order ordinary differential equations odes these equations are evaluated for different values of the parameter μ for faster integration you should choose an appropriate solver based on the value of μ for $\mu > 1$ any of the matlab ode solvers can solve the van der pol equation efficiently the ode45 solver is one such example

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equations integrating factors and homogeneous equations and more differential equations nonhomogeneous differential equations Feb 21 2022 16 11 2022 this is a fairly common convention when dealing with nonhomogeneous differential equations this theorem is easy enough to prove so let s do that to prove that $y_1(t) y_2(t)$ is a solution to $y'' + p(x)y' + q(x)y = r(x)$ all we need to do is plug this into the differential equation and check it

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