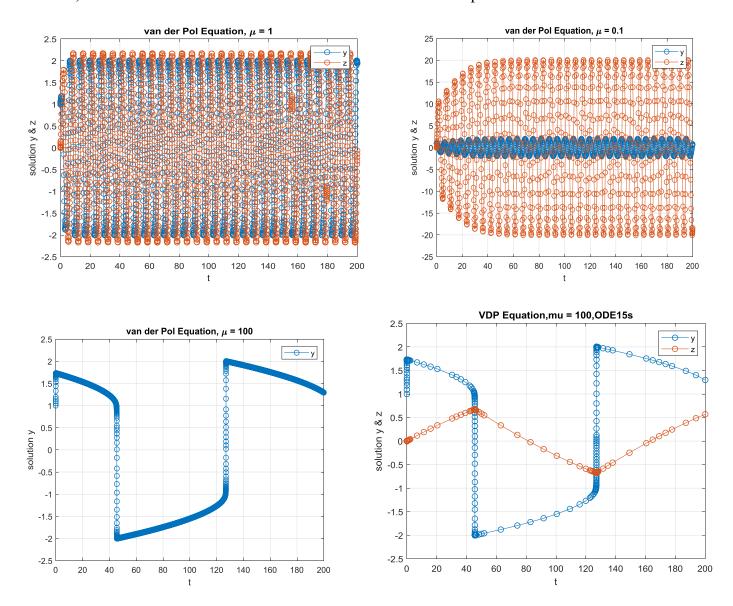
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Ans a) We substitute $z = y-y^3/3 - (dy/dt)/mu$. Then $dy/dt = mu^*(y-y^3/3-z)$ and dz/dt = y/mu.

Ans b &c) ODE15s is much faster in this case than ODE45 on the stiff problem.



Ans c) In the end, z=0 for multiple values of y which implies reaching steady state (as dy/dt=0).

