COMPUTATIONAL PRACTICUM assignment

Differential Equations

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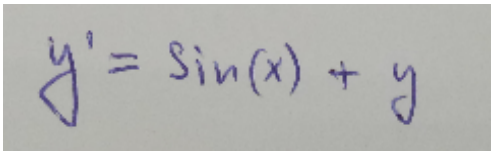
y’ = sin(x) + y

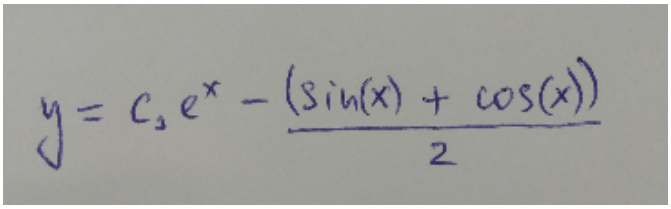
Exact solution of IVP(Initial Value Problem)

there x0 = 0 and y0 = 1

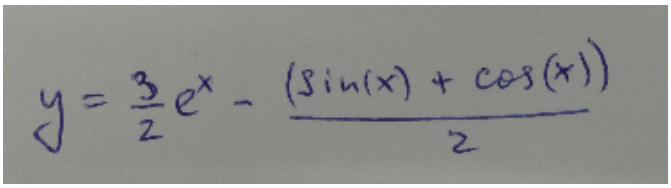
Given Differential Equation:



Solution of DE:



Solution of IVP:



There isn’t any point of discontinuity in solution of given differential equation.