Elementary Differential Equations: Evaluation #11, November 18, 2020

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1. Let ϕ be the solution to the initial value problem

$$y'' + 2y' + (\cos x)y = 0,$$
 $y(0) = 1,$ $y'(0) = 0.$

Compute $\phi''(0)$, $\phi'''(0)$, $\phi^{(4)}(0)$. Show your work.