

## 316-QUIZ 5

Name: \_\_\_\_\_

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**1 Determine the form of the general solution for the following ODE:**

(No need to solve for the coefficients!)

(a)  $y'' + 4y = \cos 2x + \cos x$

(b)  $y'' + 2y' + 5y = \cos 2x$

$$(c) \ y'' + 2y' + 5y = e^{-x} \cos x$$

$$(d) \ y'' - y = e^x$$

$$(e) \ y'' - 2y' = x + e^{2x}$$