

## Quiz 11

### Homogeneous Linear Equations with Constant Coefficients

(10 points) Find a general solution to

$$y''' + y'' + 3y' - 5y = 0.$$

### Undetermined Coefficients and the Annihilator Method

(10 points) Find a differential operator that annihilates

$$6xe^{-4x} + 5e^x \sin(2x).$$

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Special number: \_\_\_\_\_ Name: \_\_\_\_\_  
Section Number: \_\_\_\_\_ PUID: \_\_\_\_\_