

Name: \_\_\_\_\_ ID #: \_\_\_\_\_ Serial #: \_\_\_\_\_

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1. Use reduction of order to find a 2nd solution  $y_2$  of  $y'' - 16y = 0$  given that  $y_1 = e^{4x}$  is a solution.

2. Solve the DE  $y'' - y' - 12y = 0$ .