

Name _____

Class Time _____

Math 2250 and 2280 Special Problems
Chapter 1, sections 1.4 and 1.5
January 2009

Problem ER-1. (Linear Integrating Factor Method)

The symbolic solution of $y' = -2xy$, $y(0) = 2$ is $y = 2e^{-x^2}$. Display the details of the linear integrating factor method derivation of this symbolic solution, plus a full answer check.

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Problem ER-2. (Variables Separable Method)

The exact symbolic solution of $y' = \frac{1}{2}(y - 1)^2$, $y(0) = 2$ is $y = \frac{x - 4}{x - 2}$. Display the details of the variables separable method derivation of this symbolic solution, plus a full answer check.

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End of Special Problems, exam review, chapter 1.