Problem 1

Show that e^{2x} , $\sin(2x)$ are linearly independent on $(-\infty, \infty)$.

Problem 2

Show that e^{-x} , xe^{-x} are linearly independent on $(-\infty, \infty)$.

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Score: /10

Name:

Problem 3

Show that e^x , e^{2x} , e^{3x} are linearly independent on $(-\infty, \infty)$.