Calculus 1B - Answers to SSS exercises, week 6

1. 1.1 -

   (Show that Equation (1) is true when you replace y by $c_1 e^{-x}$ or by $c_2 e^{-4x}$, respectively.)

   1.2 -

   (Show that Equation (1) is true when you replace y by $c_1 e^{-x} + c_2 e^{-4x}$.)

2. $y = -e^{-x} + e^{-2x}$

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3. 3.1 $y = c_1 \cos 2x + c_2 \sin 2x + \frac{1}{3} \sin x$

   3.2 $y = c_1 e^x + c_2 e^{-x} - x$

4. $y = c_1 e^x + c_2 e^{-x} + \frac{1}{2} x e^x - x^2 - 2$