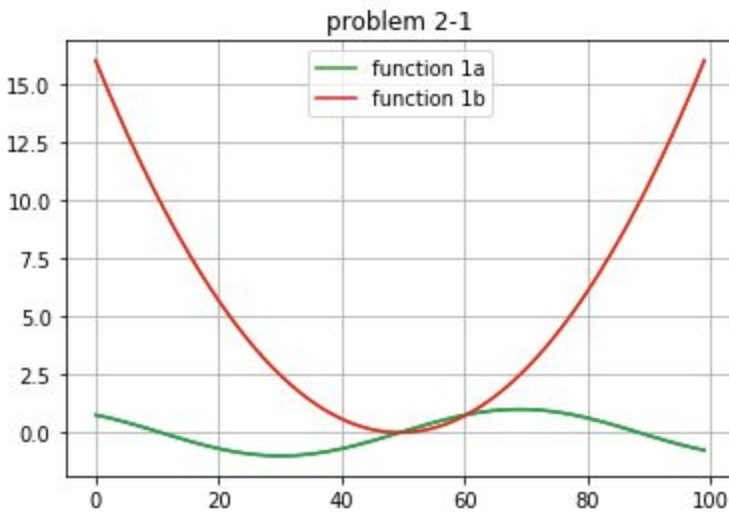
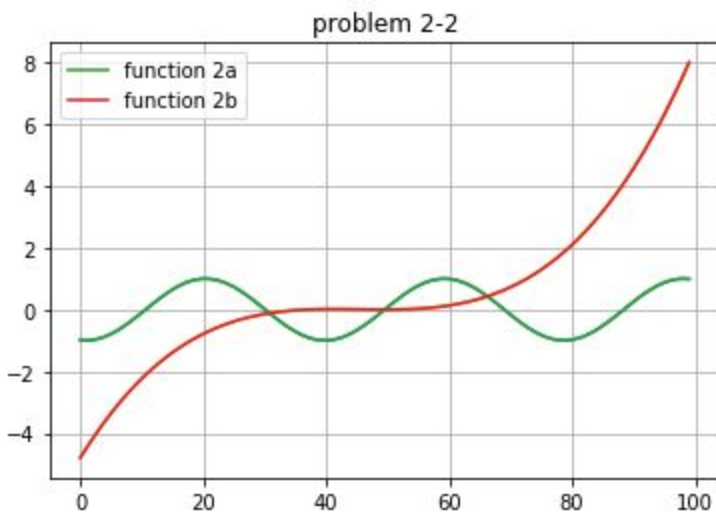


Problem 2-1. $f_{1a}(x) = \sin x$ and $f_{1b}(x) = x^2$



Problem 2-2. $f_{2a}(x) = \sin 2x$ and $f_{2b}(x) = x^3/10 + x^2/10$



Problem 2-3. $f_{3a}(x) = e^{0.001x} + \ln(x^3)$ and $f_{3b}(x) = 0.1x^3 + 0.1x^2 - 5$

