PHYS 2210 Quantum Physics I **Spring 2020**

Homework #1

Chapter 1

Problems 1.1, 1.2, 1.19, 1.20

Additional problem 1).
Determine the solution of $\frac{dy}{dx} + Cy = 0$, where C = constant

Additional problem 2).
Solve $-\frac{d^2y}{dx^2} + V_0 y = Ey$, Where V_0 and E are constants. What kind of solutions (exponential, imaginary exponentials/sines and cosines) do you get if $E > V_0$? What if $E < V_0$?