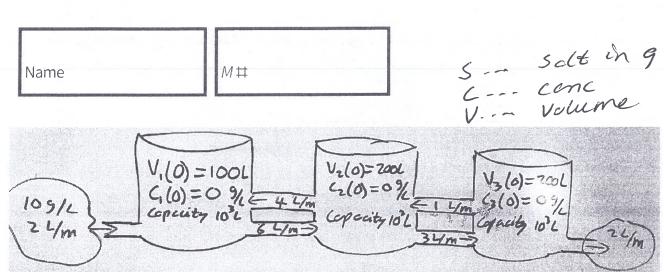
wed



Write down the ODE for the tank system.

(heck
$$Vol\ In = Vol\ Out$$
 $V_1(t) = 100$
 $V_2(t) = 200$
 $V_3(t) = 200$
 $V_3(t) = 0$
 $V_3(t) =$

1) Write down the ODE for the tanks system in matrix for y' = A.y + f and $y(0) = y_0$

$$A = \begin{pmatrix} \\ \\ \\ \end{pmatrix}, f = \begin{pmatrix} \\ \\ \\ \end{pmatrix}, and y_0 = \begin{pmatrix} \\ \\ \\ \\ \end{pmatrix}$$