PHY 2048C Solution to Practice Quit 8.

len 1

Wave agn.  $\frac{\partial Y}{\partial x^2} = \frac{1}{\sqrt{2}} \frac{\partial Y}{\partial t^2} + \frac{1}{\sqrt{2}} \frac{\partial Y}{\partial x} = \frac{1}{\sqrt{2}} \frac{\partial Y}{\partial t^2}$ between the practice Quit 8. vave M. AT EF=0 trave M. T=mg Nune = ma . Men, a miss Misadded  $N_{\text{wine}} = (m+M)g - (N_{\text{wine}} + M)g$  $M = (N_{\text{wave}_2} - N_{\text{wave}_0}) \frac{M}{g} = (4s^2 - 20^2) \frac{5.6}{9.81}$ Problem 2. The pressure or density of the air assultates during a sould ware It oscillates in the direction of the wave propagation Problem 3. At the surface  $C = Paten + EPV_{surface}$  pgh.

At the set, level,  $C = Paten + L pv_{set}^2 + pgh$ Vsurface At=Vzti- bed 1/2 - Viet) = Pgh = X = Vget taint: taint = \frac{2H}{9} \frac{1}{2} V\_{54} \left(\frac{A\_{5}}{A\_{4}} - 1) = \text{psh to Vet = \frac{2pgh}{(A\_{5} - 1)} \left(\frac{A\_{5}}{A\_{4}} - 1) = \text{psh to Vet = \frac{2pgh}{(A\_{5} - 1)} \left(\frac{A\_{5}}{A\_{4}} - 1) = \text{psh to Vet = \frac{2pgh}{(A\_{5} - 1)} \left(\frac{A\_{5}}{A\_{4}} - 1) = \text{psh to Vet = \frac{2pgh}{(A\_{5} - 1)} \left(\frac{A\_{5}}{A\_{4}} - 1) = \text{psh to Vet = \frac{2pgh}{(A\_{5} - 1)} \left(\frac{A\_{5}}{A\_{4}} - 1) = \text{psh to Vet = \frac{2pgh}{(A\_{5} - 1)} \left(\frac{A\_{5}}{A\_{4}} - 1) = \text{psh to Vet = \frac{2pgh}{(A\_{5} - 1)} \left(\frac{A\_{5}}{A\_{4}} - 1) = \text{psh to Vet = \frac{2pgh}{(A\_{5} - 1)} \left(\frac{A\_{5}}{A\_{5}} - 1) = \text{psh to Vet = \frac{2pgh}{(A\_{5} - 1)} \left(\frac{A\_{5}}{A\_{5}} - 1) = \text{psh to Vet = \frac{2pgh}{(A\_{5} - 1)} \left(\frac{A\_{5}}{A\_{5}} - 1) = \text{psh to Vet = \frac{2pgh}{(A\_{5} - 1)} \left(\frac{A\_{5}}{A\_{5}} - 1) = \text{psh to Vet = \frac{2pgh}{(A\_{5} - 1)} \left(\frac{A\_{5}}{A\_{5}} - 1) = \text{psh to Vet = \frac{2pgh}{(A\_{5} - 1)} \left(\frac{A\_{5}}{A\_{5}} - 1) = \text{psh to Vet = \frac{2pgh}{(A\_{5} - 1)} \left(\frac{A\_{5}}{A\_{5}} - 1) = \text{psh to Vet = \frac{2pgh}{(A\_{5} - 1)} \left(\frac{A\_{5}}{A\_{5}} - 1) = \text{psh to Vet = \frac{2pgh}{(A\_{5} - 1)} \left(\frac{A\_{5}}{A\_{5}} - 1) = \text{psh to Vet = \frac{2pgh}{(A\_{5} - 1)} \left(\frac{A\_{5}}{A\_{5}} - 1) = \text{psh to Vet = \frac{2pgh}{(A\_{5} - 1)} \left(\frac{A\_{5}}{A\_{5}} - 1) = \text{psh to Vet = \frac{2pgh}{(A\_{5} - 1)} \left(\frac{A\_{5}}{A\_{5}} - 1) = \text{psh to Vet = \frac{2pgh}{(A\_{5} - 1)} \left(\frac{A\_{5}}{A\_{5}} - 1) = \text{psh to Vet = \frac{2pgh}{(A\_{5} - 1)} \left(\frac{A\_{5}}{A\_{5}} - 1) = \text{psh to Vet = \frac{2pgh}{(A\_{5} - 1)} \left(\frac{A\_{5}}{A\_{5}} - 1) = \text{psh to Vet = \frac{2pgh}{(A\_{5} - 1)} \left(\frac{A\_{5}}{A\_{5}} - 1) = \text{psh to Vet = \frac{2pgh}{(A\_{5} - 1)} \left(\frac{A\_{5}}{A\_{5}} - 1) = \text{psh to Vet = \frac{2pgh}{(A\_{5} - 1)} \left(\frac{A\_{5}}{A\_{5}} - 1) = \text{psh to Vet = \frac{2pgh}{(