**Problem 2**

Without u (the delta function) 100 gp, 0.01 tau





**When I added the delta packet at N/5**

with grid points = 100, tau = 0.01

whereas With grid points = 1000, tau = 0.01 (reflection appeared at 80,000 iterations)

for u = 2, the solution is below



Since the reflection occurs at about 80,000 iterations, I plotted the amplitudes before 80000 iterations (as transmission) and the amplitudes after 80,000 iterations as reflection. The plot below shows the result.

