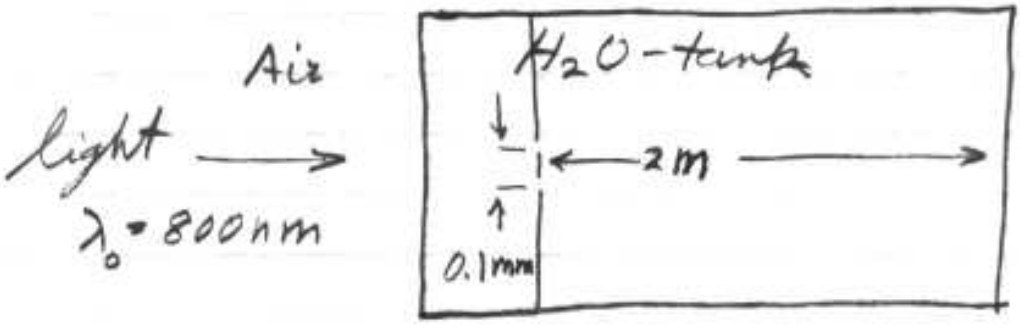
Physics 6C
Prof. Scalapino/Nelson

Spring 97

NAME_____

1. Laser light with $\lambda_0 = 800\,\text{nm}$ is incident on a tank of water with index of refraction $n = 4/3$. In the water are two slits separated by 0.1 mm and placed 2 m from the end of the tank; see the diagram below. Find the distance between the bright fringes formed at the end of the tank.