Na	Name:	
1.	Define diffraction. (10 pts)	
2.	Define interference. (10 pts)	
3.	What does the symbol D in Eq. 21.1 represent? (10 pts)	
4.	What does the symbol d in Eq. 21.3 represent? (10 pts)	
5.	Use substitution to solve the single-slit equations (Eq. 21.1 and Eq. 21.2) for λ , in terms of the quantities that we will determine in lab: W, L, D . (20 pts)	
6.	Use substitution to solve the double-slit equations (Eq. 21.5 and Eq. 21.3) for λ , in terms of the quantities that we will determine in lab: m, L, d, y . (20 pts)	
7.	Given $D_1 = .02$ mm and $\delta D = .005$ mm, calculate $\delta_{\%} D_1$. Given $D_2 = .16$ mm, calculate $\delta_{\%} D_2$. Why will it be important to begin with the widest slit? (20 pts)	