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## PHYS319 Optics Pre-lab Diffraction 1

1. What is diffraction?
2. What is Huygens-Fresnel Principle?
3. What is Fraunhofer Diffraction? What is Fresnel Diffraction?
4. What the "sinc" function? How is the plot of (sinc)^2 vs. beta fundamentally different from sinc vs. beta.
5. In figure 10.10 of Hecht, a note concerning the diffraction pattern states the "This is the irradiance (and not the electric field) distribution. What is the definition of irradiance and what are its units?