

## Physics 214 Quiz 2-4

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- Green light of wavelength 520 nm passes through a grating that has 3500 lines per centimeter. At what angle is the second-order maximum?
- What is the highest-order maximum produced by this setup?
- If the light source were only to illuminate the first 1750 lines of the grating, at what angle would be the second-order principal maximum?
- The green light source is replaced with a blue source of wavelength 460 nm. Will the angle of the first principal maximum be smaller or larger than before? Explain briefly; no credit without an explanation.)