

Exam 3 Review

Exam 3 will cover chapters 17 (thin films), 31(5-6), 33, 34, 35.4 (magnifying glass, microscope and telescope)

Chapters 17: Thin films

Interference: path length difference, reflection on a fixed and free end

- Review the Canvas videos and slides
- Review the MasteringPhysics exercises
- Review the tutorial pp 207-211 (the solution is posted on the class website) and the associated tutorial homework exercises.

Chapter 31 (5-6): EM waves, polarization

- Review the Canvas videos and slides
- Review the MasteringPhysics exercises
- Review the tutorials pp 149-152 and pp 213-216 (solutions are posted on the class website) and its associated tutorial homework exercises.
- Review the in-class exercises “EM wave examples”.

Chapter 33: 2-slit interference, multiple-slit interference, diffraction, diffraction and interference

- Review the Canvas videos and slides
- Review the MasteringPhysics exercises
- Review the tutorials pp 181-205 (solutions are posted on the class website) and its associated tutorial homework exercises.

Chapters 34 & 35.4: Ray diagrams, plane mirrors, refraction, lenses and applications to optical instruments (magnifying glass, microscope, telescope)

- Review the Canvas videos and slides
- Review the MasteringPhysics exercises
- Review the tutorials pp 159-163, 168-180 (solutions are posted on the class website) and its associated tutorial homework exercises.