

Name _____

PHYS319 Optics
Pre-lab - Holography

See lab write-up for questions 1 through 4.

1. What is hologram? How is hologram different from a photograph?
2. Why does the creation of a hologram require a coherent light source?
3. What happens if you cut a hologram into small pieces and view it (when compared to the uncut piece)?
4. A hologram produces both a _____ image & a _____ image. See Figure 16-1.
5. What is a transmission hologram? 'Google' the answer.
6. What is a reflection hologram? 'Google' the answer.
7. The famous Tupac hologram (like essentially all things presented as such in popular media) is not a hologram. Explain what it actually is. 'Google' this also.