



Quiz 2A

9) A diffraction grating 10 cm in length has  $0.80 \times 10^5$  slits cut into it. The second order maxima for light with a wavelength of 500 nm occurs at an angle of \_\_\_\_\_. 9) \_\_\_\_\_  
A)  $53^\circ$                       B)  $27^\circ$                       C)  $38^\circ$                       D)  $64^\circ$

10) You are planning to use a projector to produce an image of an object 25 mm high on a screen 3.0 m away from the lens. If you want the image to have a height of 0.50 m what is the focal length of the lens you would use. 10) \_\_\_\_\_  
A) 143 mm                      B) 37mm                      C) 312 mm                      D) 55 mm

## Answer Key

Testname: QUIZ 2

- 1) B
- 2) C
- 3) C
- 4) C
- 5) A
- 6) B
- 7) D
- 8) D
- 9) A
- 10) A