

# Physics 2426 - Dr. Terry Honan

## ■ Practice Final Problems - Answers

**Problem 1** (i) A (ii) C

**Problem 2** (a) 85.6 nm (b) 9.6 cm (c)  $1.28 < n < 1.60$

**Problem 3** (a) 5.76 cm (b)  $7\lambda < d < 8\lambda$

(c)  $s = 10.25$  cm (slide position),  $s' = 410$  cm

(screen position)

(d)  $500 \frac{\text{W}}{\text{m}^2}$  (between),  $375 \frac{\text{W}}{\text{m}^2}$  (after second)