n.=1.40

n= 1.70

7=480 nm

.. d=8.0 µm

(1) 
$$bsin\theta = (2k+1) \frac{\lambda}{2}$$
  $k = 1, 2, 3, ...$   $sin\theta \approx \frac{\lambda}{7}$   $(400 nm < \lambda < 750 nm)$   $k = 3$   $k = 4$   $k = 4$   $k = 3$   $k = 4$   $k$ 

Sind≈子 k=2 ∴ X= 0.583 m

11-6 D

11-5 B 11-27

$$sine=0.2$$
  
 $\therefore d=6 \times 10^{-6} m$ 

(2)  $(b+b')sine=\pm k\lambda$   $k=0,1,2,\cdots$   
 $bsine=\pm k'\lambda$   $k'=1.2,3$   
 $\frac{k}{k'}=4$   
 $\therefore b=1.5 \times 10^{-6} m$ 

(3)  $dsine=k\lambda$   
 $sine<1$   
 $\therefore k<10$   
 $\therefore k<10$   
 $\therefore k<10$   
 $\therefore k$   $B$   $11-7$   $C$   $11-8$   $B$   $11-38$   $1=\frac{1}{2} \cos^2 6 \delta^2$   $1_3=\frac{1}{2} 1_0 \cdot \cos^2 30^\circ$   $1_3=\frac{1}{2} 1_1 \cdot \cos^2 30^\circ$   $1_3=\frac{9}{4} 1_1$ 

11-39 设入射光高强度为I,线偏振光强为x1

xI+ (1-3/2 = 2/1-3/1

...偏振光与3,自然光与3。

∴ Χ=≩

$$I_{3} = \frac{1}{2} I_{0} \cdot \cos^{2} 30^{\circ}$$

$$I_{3} = I_{2} \cdot \cos^{2} 30^{\circ}$$

$$I_{3} = \frac{9}{4} I_{1}$$

11-35

(1) dsine = kx k=2