习题二十九 1. B 2. D 3. 6 第一级明备纹 4. 500 mm S. 光程差为 S=asind-asind. in a (sind - sind) = k7  $\phi = \arcsin\left(\pm\frac{kn}{\alpha+\sin\theta}\right), k=1,2,...$ (1)对第一级明条纹,有 asin句,27 ,图为句,很小 sind,2- $A \times a = 2 f \frac{1}{a} = 1.2 cm$ 12) 对第二级暗杀纹, a sin  $\phi_2 = 2\lambda$  ,  $x_2 = 2f \frac{\lambda}{a} = 1.2 \text{ cm}$ 1起三十 1.A 2.B 3.0.36 mm 4.625 nm 5 d = = 7 x /0 -6 m in 2, = 450nm , 2 = 650 nm 二八和小分别对应的第二级谱线有  $d\sin\theta_1 = 2\lambda_1$ ;  $d\sin\theta_2 = 2\lambda_2$ = 0, = arcsin = 26.7°  $\theta_2 = arcsin. \frac{2d_2}{d} = 40.5^\circ$ 二完度 x2-x1=f(tan 02-tan 02) \$4/3 f = 100 cm 6. (1) (a+b) sin = kl, 与 = 于时, k= a+b=3.39 取 knax = 3 又有 a = b = a sin = 元 > : 人= ± 2 ko 飲饭...看到 0, ±1, ±3 共五级