COURSE: Concrete Mathematics THEME: chap3 integer functions NAME: JHD 3.4 (x mod ry) mod y = x mody, n∈ 2? : X = kny + Xmodny : (X mod ny) mody = (x - kny) mody = X mudy 简单多数结论 $n = \left\lfloor \frac{n}{m} \right\rfloor + \left\lfloor \frac{n+j}{m} \right\rfloor + \cdots + \left\lfloor \frac{n+m-1}{m} \right\rfloor$ 3.15 导出3.26 $n = \lceil \frac{n}{m} \rceil + \lceil \frac{n-1}{m} \rceil + \dots + \lceil \frac{n-m+1}{m} \rceil$ 导出 mx=[x]+[x-片]+···+[x-四] n mod 2 = [n为奇数]= (1-(-リ")/2 3.16 n mod 3 = 2: a+b. w 3k+2 + cw 6k+4 = a+bw 2 + cw = 2 (c=1) [Lx+ 点] 3.17 OSK M JUJJER $= \sum_{0 \le k < m} \sum_{j} [1 \le j \le x + \frac{k}{m}]$ $= \sum_{j} \sum_{k} \left[1 \le j \le x + \frac{k}{m} \right] \left[0 \le k < m \right]$ $= \sum_{i} m[1 \le j \le x]$ X+ 点 E [x, x+1). 即仅可服X = m (x-1+1)=mx