Zod. 5 dxn nen , xn Geom(pn) P[Xn7k]=(1-Pn)x-1, k71. Zakt. Pn -> 0. P[X_=k] = Pn(1-Pn)^k-1 Policemy f. char. remiennej PnXni Prix (t) = exp(pt), exp(t) = Eetx. = EcostXn+ i EsintXn (1) = M Zonienne PrXn mo vorktool objekretny, wiec $(x_n(t) = \sum_{k=1}^{\infty} \mu_{X_n}(k) \cdot e^{itk}$ $=\sum_{k=1}^{\infty} P_n(1-p_n)^{k-1} e^{itk} =$ = pneit 2 (1-pn) & Hara eitk = = Pn eit · 1-(1-pn)eit = n-(1-pn)eit (Paxntt) = (xn(pnt) = Preipnt 1-(1-pn)eipnt COS Michtel... Wm Ppnxn(t)=limpxn(pnt) Tatal (D) = lim # Pneipht Hlehipher the pheipher har preipht har hepherbet = Niw + eipnt + pitpneipnt = 1+0 + eipnt - (1-pn) it eipnt = 1-it