4.) n. Wochen an .. ges and, will immen Ky .. knowk In .. immun  $K_{n} = \frac{1}{p} \cdot G_{n-1}$   $I_{n} = I_{n-1} + K_{n-1}$   $G_{n} = G_{n-1} - K_{n}$   $I_{n} = 0$   $G_{n} = p^{N}$ ges: explizite Formeln Jan Kn, In, Gn Gn=Gn-1-Kn=Gn-1(1-7)=Gn-2(1-7)2=...=Gn(1-7)h-1 Kn= p. Gn-1 = p G, (1-2) n-2 Wenn Ky=1 folgs Gn=pN(1-2)n-1  $X_{n} = \frac{1}{p} \cdot p \cdot (1 - \frac{1}{p})^{n-2} = p \cdot (1 - \frac{1}{p})^{n-2}$   $I_{n} = \frac{1}{p} \cdot p \cdot \frac{1}{2} \cdot (1 - \frac{1}{p})^{n-2} = p \cdot (1 - \frac{1}{p})^{n-2} \cdot \frac{1}{2} \cdot (1 - \frac{1}{p})^{-1}$   $I_{n} = \frac{1}{p} \cdot p \cdot \frac{1}{2} \cdot (1 - \frac{1}{p})^{n-2} = p \cdot (1 - \frac{1}{p})^{n-2} \cdot \frac{1}{2} \cdot (1 - \frac{1}{p})^{-1}$