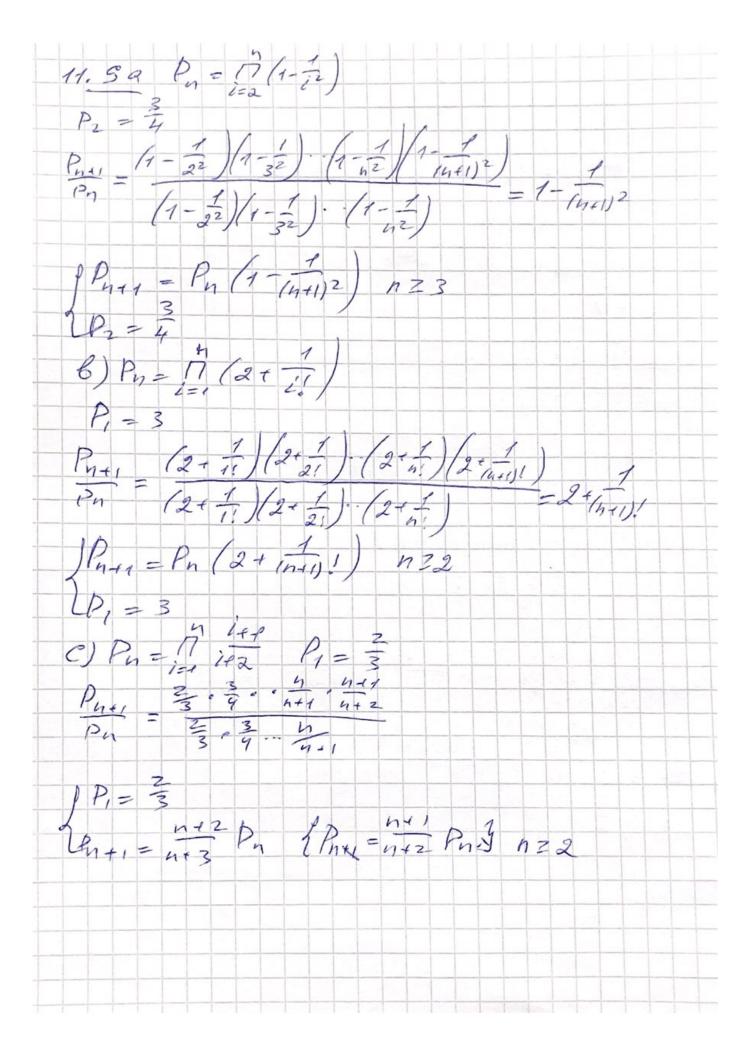
11.80 a) Sh = -1+2-3+..+/-1)"h  $S_{n+1} = S_n = -1+2-3+.+(-1)^n + (-1)^n + (-1$ = (-1) 1 (4+1) 1Sn+1=Sn+(-1)n+1(n+1), n=2 2S,=-1 11.86 Sn=1.2 2.3 11-11h  $S_n - S_{n-1} = \frac{1}{(-2)} + \frac{1}{(n-2)(n-1)} + \frac{1}{(n-1)n} - \frac{1}{(-2)} + \frac{1}{(n-2)(n-1)} + \frac{1}{(n-1)n}$ 11.8 C  $S_n = \frac{1}{2} - \frac{2}{3} + \frac{3}{4} - \frac{1}{n} + \frac{(-1)^n (n-1)}{n}$ S,=0 S2=5  $S_{n+1} - S_n = \frac{1}{2} \frac{1}{3} + \frac{1}{3} +$  $= \frac{(-1)^{n+1} \cdot n}{n+1} = \frac{(-1)^{n+1} \cdot n}{(-1)^{n+1} \cdot n}$   $|S_{n+1} - S_n + (-1)^{n+1} \cdot n| = 3$ 



 $\frac{11.7 \ a)}{X_{k}} = \frac{x^{2k+1}}{(2k+1)!}$   $\frac{x^{2k+1}}{(2k+1)!}$  $X_{k-1} = (2k+1)! \qquad X_{k-1} + 2 + 1$   $X_{l} = (2k+1)/2k) \cdot X_{k-1} + 2 + 1$   $X_{0} = X_{0} + k = 0$   $X_{1} = -X_{0} + k = 0$   $X_{2} = -X_{0} + k = 0$   $X_{3} = -X_{0} + k = 0$   $X_{4} = -X_{4} + k = 0$   $X_{5} = -X_{5} + k$ (2)  $X_{k} = \frac{(-1)^{k} x^{k}}{(k^{2} + k)!} \quad X_{0} = 1$  $\frac{X = (-1)^{k} \times^{k-1} \times (k^{2} = 1)!}{X = (k^{2} + k)! \cdot (-1)^{k} (-1)^{-1} \times (-1)^{-1} \times (-1)!} \times (k^{2} + k)!$  $\int_{-\infty}^{\infty} X_{k} = -\frac{X_{k-1} \cdot X_{0}(k^{2}-k)!}{(k^{2}+k)!}$ 

