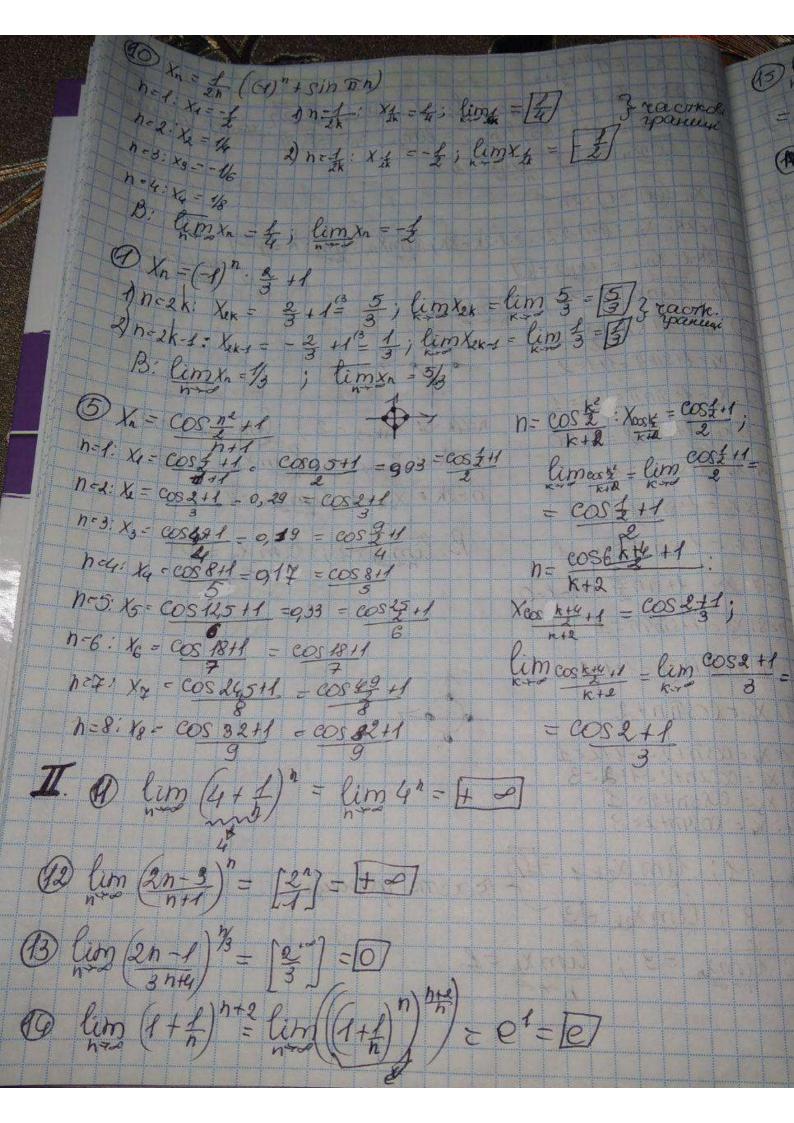
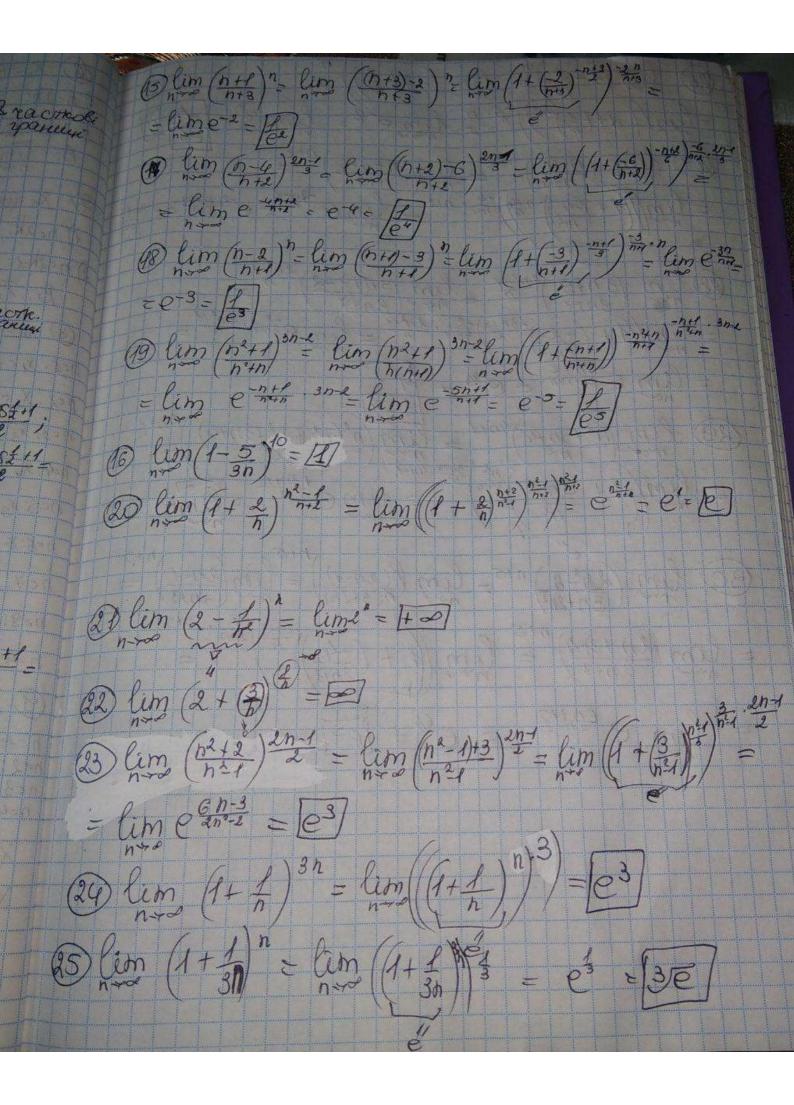
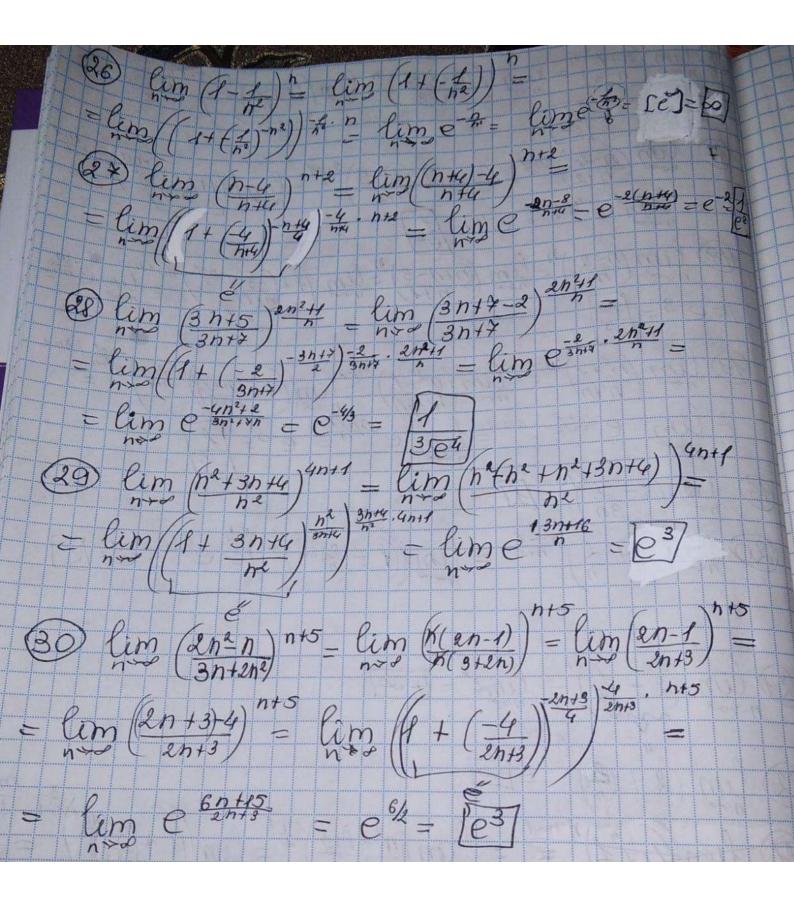
Danama Jodona @ Xn = (1) n+2 (3+2n) 1 h-2k. Lek = (4) 2 km (3 42k) = 1 (3+4k) = 3+4k Cem Xex = lim (3 +4k) = [3] $\begin{cases} 2k-1 = -(3+2(2k-1)) = -(3+4k-2) = -(4k+1) = -4k-1 \end{cases}$ 4m X2k-e = lim (-4k-2) = [-1] unilaem upan i fl; 35 B: Cim Xn = 3; Cim Xn = -1 (3) Xn = (-1) n+1 n+n 1) h=2k: X2k=(1)2k+1/2k+2k=-2k+2k=0 lem Xx = lemo - 10/ 2) n = 2k - 1: X2k - 1 = - (2k - 1) + (2k - 1) = - 2k + 1+ 2k - 1 = 0 lim Xxx = lim0 = [0] line ract your los B: limxn=0; lim xn=0 (4) Xn = Sin Tin +2 n-1: X1-5)nn+2=0+2=0 n=2: Xz = Sin2n+2=0+2=2 he3: X3 = sinsnt2 = otl = 2 note : Xy = Sin45+2 = Otlel Xxx e = 2; Xxx c2 lim Xxx 027 lim Xxx-1=R/ B: limx = 2

6 Xn = (1) 1 1 13 1) no2k: X2k = \$ +3 = 2,5 ; lem X2k=lim 3,5 = [2,5] racork paneryi

1) no2k-1: X2k = \$ +3 = 3,5; limin = limin 3,5 = [3,5] B: timxn = 3,5; timxn = 4,5 (9) Xn = ((4) "11) .2n 8) Xn = ((+1) · 41) · 2n 1) n= 2k: X2k = (1+1) · 2 · 2k = 2 · 2 · 2k = 8k; lim X2k = lim 8k = It = 7 rea crokobi youruni phask-1 Xing = limo = 1 B. limx = +9 / limx = 0 8 Xn = 1+ Sin 5h nol: X1 = 1+Sib = -1+1=2 1-2: X2 = 1+ SinT = 1+0= 1 hr4k-3: X4k-3 = 2) [in x4k-3 = 2] n=3: x3 = 1+ Sih 3 = 1-1=0 no4k-1: X4K-1 =0; lim X4K-1 =10 104: Xy = 1+5112 T = 1 nalk = Xx = 1; lim Xx = [] nos: X3 = 1+sins = 2 1-6:16 - 1+Sin 35=1+0=1 Bilimy ce; lim x =0 nc7: Xp = 1+817# =1-1=0 n=81 Xg = 1+sin417=1 h=9: xg-48in9 = 1+1=2 (9) Xn + COSTIN+2 hedix = COSTI+20-1+201 102 X = COSIN+2=1+2=3 ne3: Xx = COSST+2: 1 104: X4 0 00547+2 23 Xxx = 3; lim Xxx = 13/2 cacto. rpaseugi B! limxn = 3; lion xn = 1







Т. Знайти гранині постідовностий.

I. <u>Bratimu</u> yu raammobi rpanuni nocuigobnocsi { x4} q a rakone lim x4 ra ling xn.

1)
$$x_n = (-1)^2 \cdot \frac{2}{3} + 1$$

2)
$$X_{4} = (-1)^{n+2} (3+2n)$$

$$y_{4} = \frac{\cos \frac{h^{2}}{2} + 1}{n+1}$$

6)
$$xu = (-1)^{n+1} \cdot \frac{1}{2} + 3$$

$$\neq$$
) $x_n = (-1)^n + 1), 2n$

8)
$$Y_{4} = 1 + \sin \frac{\nabla y}{2}$$

10)
$$X_{1} = \frac{1}{24} \left((-1)^{4} + \sin \pi 4 \right)$$