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| 1-variant.1.Monoton funksiyaning limiti deb nimaga aytiladi?2. $\lim\_{n\to \infty }x\_{n}$=? $x\_{n}=$ $(\frac{n-1}{n+3})^{n+2}$3.$\left\{x\_{n}\right\}$ ketma-ketlikning quyi va yuqori limitlarini toping.$$x\_{n}=(cos\frac{πn}{2})^{n+1}$$ | 2-variant.1.Birinchi ajoyib limit isbotlang. 2. $\lim\_{n\to \infty }x\_{n}$=? $x\_{n}=$ $(\frac{2n+3}{2n+1})^{n+1}$3.$\left\{x\_{n}\right\}$ ketma-ketlikning quyi va yuqori limitlarini toping.$$x\_{n}=(-n)^{\frac{πn}{2}}$$ |
| 3-variant.1.Ikkinchi ajoyib limit isbotlang.2. $\lim\_{n\to \infty }x\_{n}$=? $x\_{n}=$ $(\frac{6n-7}{6n+4})^{3n+2}$3.$\left\{x\_{n}\right\}$ ketma-ketlikning quyi va yuqori limitlarini toping.$$x\_{n}=\frac{1}{n}+sin\frac{πn}{3}$$ | 4-variant.1.Funksiyaning a nuqtadagi chap (o‘ng) limitiga Geyne ta’rifini bering.2. $\lim\_{n\to \infty }x\_{n}$=? $x\_{n}=$ $(\frac{n-10}{n+1})^{3n+1}$3.$\left\{x\_{n}\right\}$ ketma-ketlikning quyi va yuqori limitlarini toping.$$x\_{n}=2+\frac{n}{n+1}cos\frac{πn}{2}$$ |
| 5-variant.1.=∞, =-∞, =+∞ larni ta’riflang. Ularning geometrik ma’nolari haqida nima deyish mumkin? 2. $\lim\_{n\to \infty }x\_{n}$=? $x\_{n}=$ $(\frac{n+1}{n-1})^{n}$3.$\left\{x\_{n}\right\}$ ketma-ketlikning quyi va yuqori limitlarini toping.$$x\_{n}=\frac{n-1}{n+1}cosπn$$ | 6-variant.1.Agar *f(x)* funksiya (*a,b*) intervalda aniqlangan, kamayuvchi va quyidan chegaralanmagan bo‘lsa, u holda =-∞ bo‘lishini isbotlang.2. $\lim\_{n\to \infty }x\_{n}$=? $x\_{n}=$ $(\frac{n+3}{n+5})^{n+4}$3.$\left\{x\_{n}\right\}$ ketma-ketlikning quyi va yuqori limitlarini toping.$$x\_{n}=\frac{n+2}{n+1}sin\frac{πn}{3}$$ |

**Funksiyalarning limitini toping**

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