

**Sun'iy intellekt ta'lim yo'nalishi 1-kurs talabalariga <<Hisob (Calculus)>> fanidan
namunaviy savollar**

№	Savol
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22.	$y=\arccos x$ funksiyaning xossalari
23.	$y=\arcsin x$ funksiyaning xossalari
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77.	Aniq integralning mavjudligi
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87.	O'rta qiymat haqidagi teorema
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89.	Birinchi tur xosmas integralning yaqinlashishi tushunchasi
90.	Xosmas integralning yaqinlashuvchiligida Kohi kriteriyasi
91.	Xosmas integralning yaqinlashuvchiligida Dirixle alomati
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93.	1-tur xosmas integrallarda Nyuton-Leybnis formulasi
94.	1-tur xosmas integrallarda o'zgaruvchilarni almashtirish usuli
95.	1-tur xosmas integrallarda bo'laklab integrallash usuli
96.	Nomanfiy funksiyaning 1-tur xosmas integrali uchun taqqoslash teoremlari
97.	$\lim_{n \rightarrow \infty} \frac{1 + \frac{1}{2} + \frac{1}{4} + \dots + \frac{1}{2^n}}{1 + \frac{1}{3} + \frac{1}{9} + \dots + \frac{1}{3^n}}$ ni hisoblang.
98.	$\lim_{n \rightarrow \infty} \frac{(n+2)! + (n+1)!}{(n+3)!}$ limitni hisoblang.
99.	$\lim_{n \rightarrow \infty} (\sqrt{n+1} - \sqrt{n})$ limitni hisoblang.
100.	$\lim_{n \rightarrow \infty} \frac{2^n - 1}{2^n + 1}$ limitni hisoblang.
101.	Hisoblang: $\lim_{n \rightarrow \infty} \frac{(n+1)^4 - (n-1)^4}{(n+1)^4 + (n-1)^4}$;
102.	Limitni hisoblang: $\lim_{n \rightarrow \infty} \frac{(1+2n)^3 - 8n^3}{(1+2n)^2 + 4n^2}$
103.	Limitni hisoblang: $\lim_{n \rightarrow \infty} \frac{(2n+1)! + (2n+2)!}{(2n+3)!}$
104.	$\lim_{n \rightarrow \infty} \left(\frac{n+1}{n-1} \right)^n$ limitni hisoblang.
105.	Limitni hisoblang: $\lim_{n \rightarrow \infty} \left(1 + \frac{1}{4n+1} \right)^{3n}$
106.	$\lim_{n \rightarrow \infty} \frac{1+2+\dots+n}{n-n^2+3}$. limitni hisoblang
107.	$\lim_{n \rightarrow \infty} \frac{n! + (n+2)!}{(n-1)! + (n+2)!}$ limitni hisoblang

108.	$\lim_{n \rightarrow \infty} \left(\frac{2+4+\dots+2n}{n+3} - n \right)$ limitni hisoblang
109.	$\lim_{n \rightarrow \infty} \frac{3+6+9+\dots+3n}{n^2+4}$ limitni hisoblang
110.	$\lim_{n \rightarrow \infty} \frac{2^n + 7^n}{2^n - 7^{n-1}}$ limitni hisoblang
111.	$\lim_{n \rightarrow \infty} \frac{(5-n)^2 - (5+n)^2}{(5+n)^2 - (2-n)^2}$ limitni hisoblang
112.	$\lim_{n \rightarrow \infty} \frac{(2n+1)! + (2n-2)!}{(2n+3)! - (2n+2)!}$ limitni hisoblang
113.	$\lim_{n \rightarrow \infty} \frac{(n+1)^2}{2n^2}$ ni hisoblang.
114.	$\lim_{n \rightarrow \infty} \frac{n^3 - 100n^2 + 1}{100n^3 + 15n}$ ni hisoblang.
115.	$\lim_{n \rightarrow \infty} \left(\frac{2n+3}{2n+1} \right)^{n+1}$ limitni hisoblang.
116.	$\lim_{n \rightarrow \infty} \left(\frac{6n-7}{6n+4} \right)^{3n+2}$ limitni hisoblang.
117.	$\lim_{n \rightarrow \infty} \left(\frac{n+3}{n+5} \right)^{n+4}$ limitni hisoblang.
118.	$\lim_{n \rightarrow \infty} \left(\frac{2n-1}{2n+1} \right)^{n+1}$ limitni hisoblang.
119.	$x_n = \frac{3n^2 + n}{2^n}$ ketma-ketlikning limitini toping.
120.	Limitni hisoblang: $\lim_{x \rightarrow 0} \left(\frac{1}{\sin x} - \frac{1}{\operatorname{tg} x} \right)$
121.	Quyida berilgan funksiyaning bir tomonli limitlarini toping: $f(x) = 2^{\frac{1}{x-1}}, x \rightarrow 1 \pm 0.$
122.	Quyida berilgan funksiyaning bir tomonli limitlarini toping: $f(x) = \frac{4}{(x-2)^3}, x \rightarrow 2 \pm 0.$
123.	Quyidagi limitni hisoblang: $\lim_{x \rightarrow 1} \frac{x^2-1}{2x^2-x-1}$
124.	Quyidagi limitni hisoblang: $\lim_{x \rightarrow \infty} \frac{x^2-1}{2x^2-x-1}$
125.	Quyidagi limitni hisoblang: $\lim_{x \rightarrow 0} \frac{(x+1)(2x+1)(3x+1)-1}{x}$
126.	$x \rightarrow 2$ da $f(x) = \frac{x^2-3x+2}{2x^2-5x+2}$ funksiyaning limitini toping.
127.	Quyidagi limitni hisoblang: $\lim_{x \rightarrow 3} \frac{x^2-5x+6}{x^2-8x+15}$

128.	Quyidagi limitni hisoblang: $\lim_{x \rightarrow +\infty} \left(\frac{x+1}{x-2} \right)^{2x-1}$
129.	Limitni hisoblang: $\lim_{x \rightarrow 0} \frac{\sin 5x}{\sin 8x}$
130.	Lopital qoidalaridan foydalanib, quyidagi funksiyaning limitlarini hisoblang: $\lim_{x \rightarrow 1} \frac{3x^2 + 5x - 8}{4x^2 + 3x - 7}$
131.	Lopital qoidalaridan foydalanib, quyidagi funksiyaning limitlarini hisoblang: $\lim_{x \rightarrow 4} \frac{\ln(x^2 - 15)}{3x^2 - 10x - 8}$
132.	$\lim_{x \rightarrow 1} \frac{x^2 - 3x + 2}{x - 1}$ ni toping.
133.	$\lim_{x \rightarrow 0} \frac{\operatorname{tg} 8x}{x}$ ni toping.
134.	$\lim_{x \rightarrow 2} \frac{x^2 + 5}{x^2 - 3}$ ni hisoblang.
135.	Funksiyaning aniqlanish sohasini toping: $f(x) = \frac{x-2}{x^2-1}$
136.	Funksiyaning aniqlanish sohasini toping: $f(x) = \frac{x^2+2}{x(x+2)}$
137.	Funksiyaning aniqlanish sohasini toping: $f(x) = \frac{x-12}{x+12}$
138.	Funksiyaning aniqlanish sohasini toping $y = \sqrt{x-1} + \sqrt{6-x}$
139.	Funksiyaning aniqlanish sohasini toping $y = \log_2 \frac{x-2}{x+2}$
140.	Funksiyaning aniqlanish sohasini toping $y = \arccos \frac{3x+4}{5}$
141.	Funksiyaning uzilish nuqtalarini toping $y = \frac{x-3}{x^3-9x}$
142.	$f(x) = \ln(x^2 + x - 2)$ funksiyaning aniqlanish sohasini toping.
143.	Limitni hisoblang: $\lim_{x \rightarrow +\infty} \frac{2^x + 7^x}{2^x + 7^{x-1}}$
144.	a ning qanday qiymatlarida quyidagi funksiya uzluksiz bo'ladi? : $f(x) = \begin{cases} \frac{\sin x}{x}, & x \neq 1 \\ a, & x = 1. \end{cases}$
145.	a ning qanday qiymatlarida quyidagi funksiya uzluksiz bo'ladi? : $f(x) = \begin{cases} x \sin \frac{1}{x}, & x \neq 0 \\ a, & x = 0. \end{cases}$
146.	a ning qanday qiymatlarida quyidagi funksiya uzluksiz bo'ladi? :

	$f(x) = \begin{cases} \frac{(1+x)^\beta - 1}{x}, & x \neq 0 \\ a, & x = 0. \end{cases}$
147.	Hosila olish jadvalidan foydalanib quyidagi funksiyaning hosilasini toping: $y = \frac{(1-x)^3}{(1+x)^4}$
148.	Quyidagi berilgan funksiyaning hosilasining ko'rsatilgan nuqtadagi xususiy qiymatsini aniqlang: $y = (x-a)(x-b)(x-c), x_0 = a.$
149.	Quyidagi berilgan funksiyaning hosilasining ko'rsatilgan nuqtadagi xususiy qiymatini aniqlang: $y = \frac{x-a}{x-b}, a \neq b, x_0 = a.$
150.	Quyidagi funksiyaning differensialini toping : $y = \frac{1}{a} \arctg \frac{x}{a} (a \neq 0)$
151.	Quyidagi funksiyaning differensialini toping: $y = \frac{x}{\sqrt{1-x^2}}$
152.	Quyidagi funksiyaning differensialini toping: $y = \arcsin \frac{x}{a} (a \neq 0)$
153.	Quyidagi funksiyaning berilgan nuqtadagi ko'rsatilgan tartibdagi hosilasni toping: $y = x^6 - 4x^3 + 4, y^{(IV)}(1) = ?$
154.	Funksiyaning hosilasini toping: $y = \ln tg\left(\frac{x}{2} + \frac{\pi}{4}\right),$
155.	$d\left(\frac{x}{\sqrt{1-x^2}}\right) = ?$
156.	$y = e^x \ln x, d^4 y = ?$
157.	$y = \sqrt{1+x^2}, y'' = ?$
158.	$y = e^x \ln x, d^2 y = ?$
159.	$f(x) = \frac{x^3}{3} + \frac{x^2}{2} - \frac{1}{2x}$ funksiya hosilasining $x = 1$ qiymatini toping.
160.	$f(x) = \arctg(x^3 + 1)$ funksiya hosilasining $x = 0$ nuqtadagi qiymatini toping.
161.	Lopital qoidalaridan foydalanib, quyidagi funksiyaning limitlarini hisoblang: $\lim_{x \rightarrow 1} \frac{3x^2 + 5x - 8}{4x^2 + 3x - 7}$
162.	Lopital qoidalaridan foydalanib, quyidagi funksiyaning limitlarini hisoblang: $\lim_{x \rightarrow 4} \frac{\ln(x^2 - 15)}{3x^2 - 10x - 8}$
163.	$y = 3^x$ funksiya uchun $y^{(10)}$ toping.
164.	$y = 3x - x^3$ funksiyaning monoton o'suvchi oralig'ini toping.

165.	$y = x^2 - 4x + 6$ funksiyaning $[-3, 10]$ segmentdagi eng kichik qiymatini toping.
166.	$y = x^2 - 4x + 6$ funksiyaning $[-3, 10]$ segmentdagi eng katta qiymatini toping.
167.	Lopital qoidasi bo'yicha hisoblang $\lim_{x \rightarrow 0} \frac{e^{tgx} - e^x}{tgx - x}$
168.	$f(x) = e^{2x-1}$ uchun $f''(0)$ ni toping.
169.	$y = \frac{\sqrt{x}}{x+100}$ ($x \geq 0$) ning o'sish va kamayish oraliqlarini toping.
170.	$y = e^x \ln x, d^3 y = ?$
171.	$y = \frac{x^2}{1-x}, y^{(3)} = ?$
172.	Quyidagi funksiyaning differensialini toping: $y = \frac{1}{\sqrt{x^2 + a^2}}$
173.	Quyidagi funksiyaning sakkizinchi tartibli hosilasini toping: $y = 3^x$
174.	Quyidagi funksiyaning yuqori tartibli differensialini toping? $y = \cos x$
175.	Funksiya hosilasini berilgan nuqtadagi qiymatini toping: $f(x) = \frac{x^3}{3} + \frac{x^2}{2} - \frac{1}{2x}, \quad x = 1.$
176.	Funksiya hosilasini berilgan nuqtadagi qiymatini toping: $f(x) = \arctg(x^3 + 1), \quad x = 0.$
177.	Quyidagi funksiya hosilasining nol nuqtadagi qiymatini toping: $y = \frac{x-1}{x+1} + xe^{2x} + \arctg 3x$
178.	Quyidagi funksiyaning yuqori tartibli differensialini toping: $y = \cos 2x$
179.	Funksiyaning monoton o'suvchi oralig'ini toping: $y = 4x - x^4$
180.	Funksiyaning differensialini toping: $y = \arcsin 3x$
181.	$\int (3x-5)^{10} dx.$ ni hisonlang

182.	Toping: $\int \left(\frac{a}{x} + \frac{a^2}{x^2} + \frac{a^3}{x^3} \right) dx.$
183.	Aniqmas integralni toping: $\int (e^{2x} + \sin 2x) dx$
184.	Aniqmas integralni toping: $\int (1 - x^2)^2 dx$
185.	Aniqmas integralni toping: $\int (\sin 5x - \cos x) dx$
186.	Aniqmas integralni toping: $\int \frac{1}{(x-1)(x+3)} dx$
187.	Aniqmas integralni toping: $\int \frac{\sin x}{\cos^2 x} dx$
188.	Aniqmas integralni toping: $\int 2x\sqrt{x^2 + 1} dx.$
189.	Aniqmas integralni toping: $\int x^2 \sqrt{x^3 + 2} dx.$
190.	Aniqmas integralni toping: $\int \frac{x^2}{x^3+1} dx.$
191.	Aniqmas integralni toping: $\int \frac{dx}{x \ln x}.$
192.	Aniqmas integralni toping: $\int x\sqrt{x-5} dx.$
193.	$\int \frac{dx}{1+e^x}.$ ni hisonlang
194.	Aniqmas integralni toping: $\int \frac{\sin x}{\sqrt{\cos x}} dx.$
195.	$\int \sin 3x \cos 2x dx$ integralni hisoblang.
196.	$\int \cos^2 3x dx$ integralni hisoblang.
197.	$\int \frac{xdx}{(x-2)(x+3)} = ?$
198.	Aniqmas integralni toping: $\int \ln x dx.$
199.	Aniqmas integralni toping: $\int \frac{xdx}{\sqrt{x^2+4}}.$
200.	Aniqmas integralni toping: $\int \frac{x^3 dx}{\sqrt{x^4+4}}.$
201.	$\int \frac{2x+3}{3x+2} dx$ ni hisoblang.
202.	Aniqmas integralni toping: $\int \frac{x^2+2}{x^2-1} dx$
203.	Aniqmas integralni toping: $\int \frac{x^2+3}{x^2-1} dx$
204.	Aniqmas integralni toping: $\int \frac{x^2}{x^2+1} dx$
205.	Aniqmas integralni toping : $y = \int x e^{-x} dx;$
206.	Aniqmas integralni toping : $\int \frac{dx}{\sqrt{x} + \sqrt[4]{x}}.$

207.	$\int \frac{dx}{\sqrt{x} + \sqrt[3]{x}}$ ni hisoblang
208.	Aniqmas integralni toping: $\int \ln x dx$.
209.	Integralni hisoblang: $\int_0^1 \arccos x dx$.
210.	Integralni hisoblang: $\int_{\frac{1}{\sqrt{3}}}^{\sqrt{3}} \frac{dx}{1+x^2}$
211.	Integralni hisoblang: $\int_0^{\frac{\pi}{4}} x \arctg x dx$.
212.	Integralni hisoblang: $\int_{-1}^1 \frac{x dx}{\sqrt{5-4x}}$
213.	Quyidagi chiziqning yoy uzunligini toping: $y = x^{\frac{3}{2}} (0 \leq x \leq 4)$.
214.	Integralni hisoblang: $\int_{-b}^{+b} (x^2 - 1) dx \quad (b > 0)$
215.	Quyidagi chiziqlar bilan chegaralangan shaklning yuzini hisoblang: $y = x^2, y = 0, x = 0, x = 2$.
216.	Quyidagi chiziqlar bilan chegaralangan shaklning yuzini hisoblang: $y = \sqrt{x}, y = 0, x = 4$
217.	Quyidagi chiziqlar bilan chegaralangan shaklning yuzini toping: $y = \frac{1}{\sqrt{x}}, y = 0, x = 1, x = 4$
218.	Quyidagi chiziqlar bilan chegaralangan shaklning yuzini hisoblang: $y = \sin 2x, y = 0, x = 0, x = \frac{\pi}{2}$
219.	Aniq integralni hisoblang: $\int_0^{\pi} x \sin x dx$
220.	Aniq integralni hisoblang: $\int_{-1}^1 \frac{x}{\sqrt{5-4x}} dx$
221.	Hisoblang: $\int_{-2}^0 (x + 1) dx$
222.	Chiziqning berilgan oraliqqa mos qismining uzunligini toping: $y = \frac{2}{3} x^{\frac{3}{2}}, 0 \leq x \leq 3$.
223.	Quyidagi chiziqlar bilan chegaralangan shaklning yuzini toping: $y = x^2, x + y = 2$.

224.	Hisoblang: $\int_0^1 \frac{dx}{1+x^2}$
225.	Hisoblang: $\int_0^2 \frac{dx}{\sqrt{x+1}}$
226.	$\int_1^2 \frac{dx}{x \ln x}$ xosmas integralning uzoqlashuvchi ekanligini ko'rsating
227.	Xosmas integralni hisoblang: $\int_1^3 \frac{dx}{(3-x)^{\frac{1}{2}}}$
228.	Xosmas integralni hisoblang: $\int_1^2 \frac{x dx}{x^2-1}$
229.	Xosmas integralni hisoblang: $\int_0^3 \frac{x^2 dx}{\sqrt{9-x^2}}$
230.	Xosmas integralni hisoblang: $\int_0^4 \frac{dx}{\sqrt{x}+x}$
231.	Xosmas integralni hisoblang: $\int_0^2 \left(\frac{2}{\sqrt{2-x}} + \frac{1}{\sqrt{x}} \right) dx$
232.	Xosmas integralni hisoblang: $\int_0^3 \left(\frac{3}{\sqrt[3]{x}} + \frac{8}{(3-x)^{\frac{1}{4}}} \right) dx$
233.	Xosmas integralni hisoblang: $\int_0^1 \frac{1-x}{\sqrt[3]{x}} dx$
234.	Hisoblang: $\int_0^1 \frac{(\sqrt[6]{x}+1)^2}{\sqrt{x}} dx$
235.	Hisoblang: $\int_{-1}^1 \frac{\arccos x}{\sqrt{1-x^2}} dx$
236.	Hisoblang: $\int_0^1 \frac{\arcsin x}{\sqrt{1-x^2}} dx$
237.	Hisoblang: $\int_0^1 \frac{dx}{2\sqrt{x}}$
238.	Hisoblang: $\int_{-\infty}^0 x e^x dx$
239.	Xosmas integralni yaqinlashishga tekshiring: $\int_1^{+\infty} \frac{\arctg x}{1+x^2} dx$
240.	Hisoblang: $\int_e^{+\infty} \frac{dx}{x \ln^2 x}$
241.	Hisoblang:

	$\int_{-\infty}^0 e^{5x} dx$
242.	Hisoblang: $\int_{-\infty}^{\infty} \frac{dx}{x^2 + 9}$
243.	Xosmas integralni hisoblang: $\int_0^{\infty} e^{-\alpha x} dx, \alpha > 0$
244.	Integralni xisoblang. $\int_{-1}^1 \frac{dx}{\sqrt{1-x^2}}$
245.	Xosmas integralni hisoblang: $\int_1^2 \frac{dx}{\sqrt{x-1}}$
246.	Hisoblang: $\int_{-\infty}^{+\infty} \frac{dx}{1+x^2}$
247.	Integralni hisoblang. $\int_0^{\infty} x \cdot e^{-x^2} dx$
248.	Xosmas integralni qiymatini toping: $\int_2^{\infty} \frac{dx}{x^2 + x - 2}$
249.	Xosmas integralni yaqinlashishga tekshiring: $\int_0^1 \frac{dx}{x^{\alpha}}, \alpha > 0$
250.	Xosmas integralni qiymatini toping: $\int_0^1 \ln x dx$