AŞAĞIDAKİ İNTEGRALLERİ BULUNUZ.

	SORULAR	YANITLAR
1.	∫x·e ^{2x} dx	$\frac{x \cdot e^{2x}}{2} - \frac{e^{2x}}{4} + C$
2.	$\int (\ln x)^2 dx$	x ln x (ln x - 2) + 2x + C
3.	∫ e ^x sin xdx	$\frac{e^x}{2} (\sin x - \cos x) + C$
4.	$\int e^{x+lnx}dx$	xex -ex +C
5.	$\int x^2 e^x dx$	x ² e ^x -2xe ^x +2e ^x +C
6.	$\int \cos(\ln x) dx$	$\frac{x \cdot (\cos(\ln x) + \sin(\ln x))}{2} + C$
7.	$\int x^2 \sin x dx$	2x sin x + cos x(2 - x ²) + C
8.	$\int \frac{x \arcsin x}{\sqrt{1-x^2}} dx$	$x - \sqrt{1 - x^2} \arcsin x + C$
9.	$\int \frac{x}{\cos^2 x} dx$	x tan x + Inicos x + C
10.	$\int x^{2} \ln(3x) dx$	$\frac{x^3}{9} [3 \ln 3x - 1] + C$
11.	$\int (x-1) \ln x dx$	$\frac{x^2-2x}{2}\ln x - \frac{1}{4}(x^2-4x) + C$
12.	$\int (x^2 - 2x + 5)e^x dx$	e ^x (x ² - 4x + 9) + C
13.	$\int (x^2 + x)e^x dx$	e ^x (x ² - x + 1) + C
14.	$\int x^5 e^x dx$	$e^{x}(x^{5}-5x^{4}+20x^{3}-60x^{2}+20x-120)$
15.	$\int x^3 \ln x dx$	$\frac{x^4}{4}\ln x - \frac{x^4}{16} + C$

1.	$\int x^{13} \ln x dx$	$\frac{x^{14}}{14} \ln x - \frac{x^{14}}{196} + C$
2.	∫ x ^a In xdx	$\frac{x^{a+1}}{a+1} \ln x - \frac{x^{a+1}}{(a+1)^2} + C$
3.	∫x²e-×dx	$-e^{-x}(2+2x+x^2)+C$
4.	∫x sec ² xdx	x tan x + Inicos xI+C
5.	∫ x sin axdx	$-\frac{1}{a^2}\sin ax - \frac{x}{a}\cos ax + C$
6.	∫x2 ^x dx	$2^{x}\left(\frac{x}{\ln 2} - \frac{1}{\ln^2 2}\right) + C$
7.	$\int x^2 \ln(2x) dx$	$\frac{x^3}{3} \left(\ln(2x) - \frac{1}{3} \right) + C \qquad .$
8.	∫ x cos nxdx	$\frac{1}{n^2}\cos nx + \frac{x}{n}\sin nx + C$
9.	∫ arc cot xdx	$xarc \cot x + \frac{1}{2} \ln \left(1 + x^2\right) + C$
10.	∫ arccos 2xdx	$x\arccos 2x - \frac{1}{2}\sqrt{1-4x^2} + C$
11.	∫arctan√xdx	$(x + 1) \arctan \sqrt{x} - \sqrt{x} + C$
12.	∫ x ² arcsin xdx	$\frac{x^3}{3} \arcsin x + \frac{x^2 + 2}{9} \sqrt{1 - x^2} + C$
13.	∫ e ^x cos xdx	$\frac{e^{x}}{2}$ (sin x + cos x) + C
14.	∫ e ^{arcsin x} dx	$\frac{e^{arcsinx}}{2} \left(x + \sqrt{1 - x^2} \right) + C$
15.	$\int \frac{\ln x}{\left(x+1\right)^2} dx$	$\frac{x}{x+1}\ln x - \ln(x+1) + C$

	SORULAR	YANITLAR
1.	$\int \frac{dx}{4-9x^2}$	$\frac{1}{12}\ln\left \frac{2+3x}{2-3x}\right +C$
2.	$\int \frac{dx}{\sqrt{16-9x^2}}$	$\frac{1}{3} \arcsin \frac{3x}{4} + C$
3.	$\int \frac{e^{2x}}{1+e^{4x}}$	$\frac{1}{2}$ arctan $\left(e^{2x}\right)$ + C
4.	$\int \frac{dx}{x^2 - 6x + 18}$	$\frac{1}{3} \arctan\left(\frac{x-3}{3}\right) + C$
5.	$\int \frac{dx}{\sqrt{4-(x+3)^2}}$	$\arcsin\left(\frac{x+3}{2}\right) + C$
6.	$\int \frac{\cos x dx}{4 - \sin^2 x}$	$\frac{1}{4} \ln \left(\frac{2 + \sin x}{2 - \sin x} \right) + C$
7.	$\int \frac{5xdx}{\sqrt{1-x^4}}$	$\frac{5}{2} \arcsin(x^2) + C$
8.	$\int \frac{2dx}{\sqrt{2+x-x^2}}$	$\arcsin \frac{2x-1}{3} + C$
9.	$\int \frac{dx}{2x^2 - 2x + 1}$	arctan(2x - 1) + C
10.	$\int \frac{dx}{1+x+x^2}$	$\frac{2}{\sqrt{3}}\arctan\left(\frac{2x+1}{\sqrt{3}}\right)+C$
11.	$\int \frac{dx}{3x^2 - 2x + 4}$	$\frac{1}{\sqrt{11}}\arctan\frac{3x-1}{\sqrt{11}}+C$
12.	$\int \frac{dx}{\sqrt{2-3x-4x^2}}$	$\frac{1}{2}\arcsin\left(\frac{8x+3}{\sqrt{41}}\right)+C$
13.	$\int \frac{(x-1)dx}{\sqrt{1-x^2}}$	$-\sqrt{1-x^2}$ – arcsin x + C
14.	$\int \frac{(3x-2)dx}{\sqrt{9-x^2}}$	$-3\sqrt{9+x^2}-2\arcsin\left(\frac{x}{3}\right)+C$
15.	$\int \frac{2x+5}{x^2+2x+5}$	$\ln\left(x^2 + 2x + 5\right) + \frac{3}{2}\arctan\left(\frac{x+1}{2}\right) + C$

. 1)	$\int x\sqrt{1+x}dx=?$	$\left(\frac{2}{5}(1+x)^{\frac{5}{2}}-\frac{2}{3}(1+x)^{\frac{3}{2}}+C\right)$
2)	$\int \left(2\sin\frac{x}{2} - 2\right) dx = ?$	$\left(-4\cos\frac{x}{2}-2x+C\right)$
3)	$\int \sin 3x \cdot e^{\cos 3x} dx = ?$	$\left(-\frac{1}{3}e^{\cos 3x}+C\right)$
4)	$\int x \cdot e^{2x^2} dx = ?$	$\left(\frac{1}{4}e^{2\chi^2} + C\right)$
5)	$\int \tan x dx = ?$	(-In cos x +C)
6)	$\int \frac{2x-1}{x^2-x+5} dx = ?$	$\left(\ln\left(x^2-x+5\right)+C\right)$
7)	$\int x \left(3x^2 - 4\right)^3 dx = ?$	$\left(\frac{\left(3x^2-4\right)^4}{24}+C\right)$
8)	$\int \frac{dx}{\sqrt{3x+1}} = ?$	$\left(\frac{2}{3}\sqrt{3x+1}+C\right)$
9)	$\int 5^{3x^2-x} \cdot (6x-1) dx = ?$	$\left(\frac{5^{3x^2-x}}{\ln 5}+C\right)$
10)	$\int \frac{e^x}{3+4e^x} dx = ?$	$\left(\frac{1}{4}\ln(3+4e^{x})+C\right)$
11)	$\int a^{2x} \ln a dx = ?$	$\left(\frac{a^{2x}}{2} + C\right)$
12)	$\int \frac{2^{x+1} - 5^{x-1}}{10^x} dx = ?$	$\left(-\frac{2}{\ln 5} \left(\frac{1}{5}\right)^{x} + \frac{1}{5 \ln 2} \left(\frac{1}{2}\right)^{x} + C\right)$
13)	$\int 2^{\tan x} \cdot \sec^2 x dx = ?$	$\left(\frac{2^{tanx}}{ln2} + C\right)$
14)	$\int \frac{\sin 2x}{\sqrt{1+\sin^2 x}} dx = ?$	$\left(2\sqrt{1+\sin^2x} + C\right)$
15)	$\int e^{\sin x + \ln(\cos x)} dx = ?$	(e ^{sinx} +C)
16)	$\int \tan x \sin(\ln(\cos x)) dx = ?$	$(\cos(in(\cos x)) + C)$