Varianta reprezintă numărul studentului în registru grupei

Varianta nr. 1

$$t1=\frac{-1}{(a-b)^2}\left(\frac{1}{a+x}+\frac{1}{1+x}\right)+\frac{2}{(a-b)^3}\ln\frac{a+x}{b+x} \qquad t2=-\frac{1}{2a}\left(\frac{\cos ax}{\sin^2 ax}-\ln tg\frac{ax}{2}\right)$$

Varianta nr. 2

$$t1=\frac{1}{a}\left(\frac{-1}{(n-2)x^{n-2}}+\frac{b}{(n-1)x^{n-1}}\right) \qquad t2=\frac{2x}{a^2}\sin ax-\left(\frac{x^2}{a}-\frac{2}{a^3}\right)\cos a$$

Varianta nr. 3

$$t1=\frac{1}{a^3}\left(\ln x+\frac{2b}{x}-\frac{b^2}{2x^2}\right) \qquad t2=\frac{\cos ax}{2a\sin^2 ax}+\frac{1}{2a}\ln tg\frac{ax}{2}$$

Varianta nr. 4

$$t1=\frac{1}{a^4}\left(\frac{x^3}{3}-3bx+3b^2\ln x+\frac{b^3}{x}\right) \qquad t2=\frac{1}{1-\sin ax}+\frac{1}{a}tg\frac{ax}{2}$$

Varianta nr. 5

$$t1=\frac{1}{b^2}\left(\ln\frac{y}{x}+\frac{ax}{y}\right) \qquad t2=-\frac{x}{a}tg\frac{ax}{2}+\frac{2}{a^2}\ln\sin\frac{ax}{2}$$

Varianta nr. 6

$$t1=\frac{1}{b^3}\left(\ln\frac{y}{x}-\frac{a^2x^2}{2y^2}\right) \qquad t2=\frac{1}{a}tg\frac{ax}{2}+\frac{1}{a}\ln tg\frac{ax}{2}$$

Varianta nr. 7

$$t1=-a\left(\frac{1}{b^2y}+\frac{1}{ab^2x}-\frac{2}{b^3}\ln\frac{y}{x}\right) \qquad t2=\frac{1}{2a}ctg\frac{ax}{2}+\frac{1}{6a}ctg^3\frac{ax}{2}$$

Varianta nr. 8

$$t1=\frac{1}{6a^3}\ln\frac{a+x}{a-x}+\frac{1}{2a^3} \qquad t2=\frac{1}{ab}\ln\frac{tg\,ax+b}{tg\,ax-b}$$

Varianta nr. 9

$$t1=\frac{1}{4a^3}\ln\frac{a^2+x^2}{a^2-x^2} \qquad t2=\frac{\cos^{n-1}ax}{a(m-1)\sin^{m-1}ax}$$

Varianta nr. 10

$$t1=\frac{2\sqrt{x}}{3b^2}-\frac{2a^2\sqrt{x}}{b^4}+\frac{2a^3}{b^5}y \qquad t2=\frac{\sin^{n-1}ax+\cos^{m-1}ax}{a(n+m)}$$

Varianta nr. 11

$$t1=\frac{2}{a^2y\sqrt{x}}+\frac{3b^2\sqrt{x}}{a^4y} \qquad t2=\frac{1}{a}\left(\ln tg\frac{ax}{2}-\frac{1}{\sin ax}\right)$$

Varianta nr. 12

$$t1=-\frac{1}{2a\sqrt{2}}\ln\frac{x+a\sqrt{2x}+a^2}{x-a\sqrt{2x}+a^2}$$

$$t2=\frac{1}{2a}tg^2 ax+c$$

Varianta nr. 13

$$t1=\frac{2(3ax-2b)\sqrt{x^3}}{15a^2}$$

$$t2=\cos ax+\frac{\sin^3 ax}{\cos^2 ax}$$

Varianta nr. 14

$$t1=\frac{1}{\sqrt{b}}\ln\frac{\sqrt{x}-\sqrt{b}}{\sqrt{x}+\sqrt{b}}$$

$$t2=\frac{\sin^2 ax}{2}+\ln\cos ax$$

Varianta nr. 15

$$t1=\frac{1}{b^3}\left(\ln\frac{y}{x}-\frac{a^2x^2}{2y^2}\right)$$

$$t2=\frac{1}{a}tg\frac{ax}{2}+\frac{1}{a}\ln tg\frac{ax}{2}$$

Varianta nr. 16

$$t1=-a\left(\frac{1}{b^2y}+\frac{1}{ab^2x}-\frac{2}{b^3}\ln\frac{y}{x}\right)$$

$$t2=\frac{1}{2a}ctg\frac{ax}{2}+\frac{1}{6a}ctg^3\frac{ax}{2}$$

Varianta nr. 17

$$t1=\frac{1}{b^3}\left(a^2\ln\frac{y}{x}+\frac{2ax}{y}+\frac{y^2}{2x^2}\right)$$

$$t2=\frac{1}{2\sqrt{2}a}+\frac{3\sin^2 ax-1}{\sin^2 ax-1}$$

Varianta nr. 18

$$t1=\frac{1}{b^4}\left(3a^3\ln\frac{y}{x}+\frac{a^2x}{y}-\frac{3ay}{x}\right)$$

$$t2=\frac{2b\,tg\frac{ax}{2}}{a\sqrt{b^2-c^2}}$$

Varianta nr. 19

$$t1=\frac{1}{2(n-1)x^{n-1}}+\frac{a}{2nx^n}$$

$$t2=\frac{1}{2a}tg^2 ax+\frac{1}{a}\ln\cos ax$$

Varianta nr. 20

$$t1=\frac{1}{4a^2x^2}+\frac{1}{2a^4x}+\frac{1}{2a^6}\ln\frac{y^2}{x}$$

$$t2=\frac{x}{2}+\frac{1}{2a}\ln(\sin ax+\cos ax)$$

Varianta nr. 21

$$t1=\frac{1}{a^2c^2+b^2}\left[c\ln(b+cx)-\frac{c}{2}\ln y\right]$$

$$t2=\frac{1}{a}\ln\frac{1+\cos ax}{ax}$$

Varianta nr. 22

$$t1=\frac{1}{3a^3y}+\frac{1}{3a^6}\ln\frac{x^3}{y}$$

$$t2=\frac{1}{a}\left[\frac{1}{(n-1)\cos^{n-1}ax}-\frac{1}{(n-1)\cos}\right.$$

Varianta nr. 23

$$t1=\frac{1}{6a}\ln\frac{a^2-ax+x^2}{(a+x)^2}+\frac{1}{a\sqrt{3}}$$

$$t2=\frac{1}{ac}\ln(b+c\cos ax)$$

Varianta nr. 24

$$t1=\frac{1}{6a^3}\ln\frac{a+x}{a-x}+\frac{1}{2a^3}$$

$$t2=\frac{1}{ab}\ln\frac{tg\,ax+b}{tg\,ax-b}$$

Varianta nr. 25

$$t1=\frac{1}{4a^3}\ln\frac{a^2+x^2}{a^2-x^2}$$

$$t2=\frac{\cos^{n-1}ax}{a(m-1)\sin^{m-1}ax}$$

Varianta nr. 26

$t1=\frac{1}{b^3}\left(a^2\ln\frac{y}{x}+\frac{2ax}{y}+\frac{y^2}{2x^2}\right)$ $t2=\frac{1}{2\sqrt{2}\,a}+\frac{3\sin^2 ax-1}{\sin^2 ax-1}$

Varianta nr. 27

$t1=\frac{1}{b^4}\left(3a^3\ln\frac{y}{x}+\frac{a^2x}{y}-\frac{3ay}{x}\right)$ $t2=\frac{2b\ tg\frac{ax}{2}}{a\sqrt{b^2-c^2}}$

Varianta nr. 28

$t1=\frac{1}{2(n-1)x^{n-1}}+\frac{a}{2nx^n}$ $t2=\frac{1}{2a}tg^2 ax+\frac{1}{a}\ln\cos ax$

Varianta nr. 29

$t1=\frac{1}{4a^2x^2}+\frac{1}{2a^4x}+\frac{1}{2a^6}\ln\frac{y^2}{x}$ $t2=\frac{x}{2}+\frac{1}{2a}\ln(\sin ax+\cos ax)$

Varianta nr. 30

$t1=\frac{1}{a^2c^2+b^2}\left[c\ln(b+cx)-\frac{c}{2}\ln y\right]$ $t2=\frac{1}{a}\ln\frac{1+\cos ax}{ax}$

Varianta nr. 31

$t1=\frac{1}{3a^3y}+\frac{1}{3a^6}\ln\frac{x^3}{y}$ $t2=\frac{1}{a}\left[\frac{1}{(n-1)\cos^{n-1}ax}-\frac{1}{(n-1)\cos}\right.$

Varianta nr. 32

$t1=\frac{1}{6a}\ln\frac{a^2-ax+x^2}{(a+x)^2}+\frac{1}{a\sqrt{3}}$ $t2=\frac{1}{ac}\ln(b+c\cos ax)$

Varianta nr. 33

$t1=\frac{1}{6a^3}\ln\frac{a+x}{a-x}+\frac{1}{2a^3}$ $t2=\frac{1}{ab}\ln\frac{tg\ ax+b}{tg\ ax-b}$

Varianta nr. 34

$t1=\frac{1}{4a^3}\ln\frac{a^2+x^2}{a^2-x^2}$ $t2=\frac{\cos^{n-1}ax}{a(m-1)\sin^{m-1}ax}$

Varianta nr. 35

$t1=\frac{1}{c}\left(\frac{1}{ax+b}+\frac{y}{c}\ln\frac{yx+a}{ax+b}\right)$ $t2=\frac{\sin ax}{2a\cos^2 x}+\frac{1}{2a}\ln tg\frac{ax}{2}$

Varianta nr. 36

$t1=\frac{b}{(a-b)(b+x)}-\frac{a}{(a-b)^2}\ln\frac{a+x}{b+x}$ $t2=\frac{1}{a}\left(\ln tg\frac{ax}{2}-\frac{1}{\sin ax}\right)$

Varianta nr. 37

$t1=\frac{-1}{(a-b)^2}\left(\frac{1}{a+x}+\frac{1}{1+x}\right)+\frac{2}{(a-b)^3}\ln\frac{a+x}{b+x}$ $t2=-\frac{1}{2a}\left(\frac{\cos ax}{\sin^2 ax}-\ln tg\frac{ax}{2}\right)$