1. $\int \frac{x^2-1}{x-1}dx =$

    A) $\frac{x^2}{2}+x+c$;   B) $\frac{x^2}{2}-x+c$;

    C) $\ln(x-1)+x+c$;   D) $\frac{x^3}{2}-x+c$

2. $\int \frac{xdx}{\sqrt{x^2-2}} =$

    A) $\ln|x+\sqrt{x^2-2}|+c$ B) $\sqrt{x^2-2}+c$

    C) $2\sqrt{x^2-2}+c$ D) $\frac{\sqrt{x^2-2}}{2}+c$

3. $\int \frac{x^3 dx}{x^4+2} =$

    A) $\frac{1}{x^4+2}+c$ B) $\frac{x^4}{4}+c$

    C) $\frac{\ln(x^2+4)}{4}+c$ D) $\frac{\ln(x^4+2)}{4}+c$

4. $\int (x+4)^2\, dx =$

    A) $\frac{(x+4)^3}{3}+c$ B) $\frac{1}{4}\cdot\frac{(x+4)^3}{3}+c$

    C) $\frac{(x+4)^4}{4}+c$ D) $\frac{(x+4)^2}{2}+c$

5. $\int \sin(7x)dx =$

    A) $\frac{1}{7}\cos 7x + c$ B) $-\frac{1}{7}\cos 7x + c$

    C) $7\cos x + c$ D) $-7\cos x + c$

6. $\int e^{5x}\, dx =$

    A) $e^{5x}+c$ B) e^{5x}

    C) $5e^{5x}+c$ D) $\frac{1}{5}e^{5x}+c$

7. $\int \frac{1}{x^2-4}dx =$

    A) $\frac{1}{4}\ln\left|\frac{x-2}{x+2}\right|+c$ B) $\frac{1}{2}\ln\left|\frac{x-2}{x+2}\right|+c$

    C) $\frac{1}{4}\ln\left|\frac{x-4}{x+4}\right|+c$ D) $\frac{1}{4}\ln\left|\frac{x+2}{x-2}\right|+c$

8. $\int \frac{dx}{10x} =$

    A) $\ln|10x|+c$ B) $10\ln|x|+c$

    C) $\frac{1}{10}\ln|x|+c$ C) $\frac{1}{10}\ln|10x|+c$

9. Jepet f'(x)=3x²-4x+8 dhe f(-1)=-5. Gjeni f(1)

    A) 13   B) -5

    C) -3   D) -10

10. $\int d(x+\sin x) =$

    A) $x+\sin x+c$ B) $1+\cos x+c$

    C) $\frac{x^2}{2}-\cos x+c$ D) $\frac{x^2}{2}+\cos x+c$

11. Njehso integralet e pacaktuara:

    $\left(2x+\frac{1}{x^2}\right)dx$; $\sqrt[7]{x^5}\,dx$

    $(x-5)dx$; $\left(1+\frac{1}{x}+\sin x\right)dx$

    $\frac{x^2+5x}{x}dx$; $\frac{\sin 2x}{\cos x}dx$

12. Njehso integralet e pacaktuara:

    $\frac{3}{4-3x}dx$; $(x+5)^7\,dx$

    $\sqrt{4-3x}\,dx$; $\sqrt[3]{2x-1}dx$

    $e^{3x-1}\,dx$ $\cos^3 x\cdot\sin x\,dx$

    $\frac{x}{2x^2+3}dx$; $\frac{e^x}{1+e^x}dx$

13. Njehso integralet e pacaktuara:

    $\frac{x}{x+2}dx$ $\frac{1}{1-x+2}dx$

    $\frac{1}{x+1-3}dx$ $\frac{1}{x-2}dx$

14. Njehso integralet e pacaktuara:

    $xe^{5x+2}\,dx$

    $(2x+3)\cos x\,dx$;

    $x^2\ln x\,dx$

    $(2x-1)\cos(1-3x)\,dx$;

15. Njehso integralet e pacaktuara:

    $\frac{9x^2+4}{2x-1}dx$ $\frac{4x^2-3x+5}{2-x}dx$

    $\frac{1-\sin^3 x}{\sin^2 x}dx$ $\frac{1-tg^2 x}{\sin^2 x}dx$

    $\frac{1-cotg^2 x}{\cos^2 x}dx$ $\frac{\sqrt[3]{x}+1}{\sqrt{x}}dx$