

Знайти невизначені інтеграли

<p>1. $\int \frac{1-2x^4}{x^2+1} dx$</p> <p>$\int \frac{3x+1}{x^2-4x-2} dx$</p> <p>$\int \frac{dx}{3x^2-12x+3}$</p> <p>$\int \frac{x^3-4x^2+2x-1}{x^3-x^2} dx$</p> <p>$\int \frac{x^2}{x^4+5x^2+4} dx$</p>	<p>2. $\int \frac{x^3-1}{x+3} dx$</p> <p>$\int \frac{x-5}{2x^2+x-4} dx$</p> <p>$\int \frac{dx}{x^2-x-2}$</p> <p>$\int \frac{4x}{(x^2-1)(x+1)} dx$</p> <p>$\int \frac{x^3-x^2+4x}{x^4-1} dx$</p>	<p>3. $\int \frac{x^3+1}{x^2+1} dx$</p> <p>$\int \frac{dx}{x^2-5x+6}$</p> <p>$\int \frac{x+2}{3x^2-x+5} dx$</p> <p>$\int \frac{x+2}{x^3-2x^2+x} dx$</p> <p>$\int \frac{2x^3-3x^2+8x-27}{x^4+13x^2+36} dx$</p>	<p>4. $\int \frac{x^3+3x+1}{x^2+2} dx$</p> <p>$\int \frac{x-7}{4x^2+3x-1} dx$</p> <p>$\int \frac{dx}{\sqrt{3x^2-x+5}}$</p> <p>$\int \frac{6x dx}{x^3+2x^2-x-2}$</p> <p>$\int \frac{2-8x}{x^4+4x^2} dx$</p>
<p>5. $\int \frac{2x^5+5}{x+1} dx$</p> <p>$\int \frac{x+2}{3x^2-x+5} dx$</p> <p>$\int \frac{dx}{\sqrt{1-x-x^2}}$</p> <p>$\int \frac{3x^2+20x+9}{(x^2+4x+3)(x+5)} dx$</p> <p>$\int \frac{3-9x}{x^3-1} dx$</p>	<p>6. $\int \frac{x^4+2}{x^2-4} dx$</p> <p>$\int \frac{2x+1}{5x^2+2x+10} dx$</p> <p>$\int \frac{dx}{\sqrt{1-2x-x^2}}$</p> <p>$\int \frac{4x^4+8x^3-1}{(x^2+x)(x+1)} dx$</p> <p>$\int \frac{36dx}{(x+2)(x^2-2x+10)}$</p>	<p>7. $\int \frac{2x^3-3}{x-2} dx$</p> <p>$\int \frac{2x+3}{3x^2+2x-7} dx$</p> <p>$\int \frac{dx}{\sqrt{x^2+5x+1}}$</p> <p>$\int \frac{x^2-19x+6}{(x-1)(x^2+5x+6)} dx$</p> <p>$\int \frac{7x-10}{x^3+8} dx$</p>	<p>8. $\int \frac{x^2+x}{2-x} dx$</p> <p>$\int \frac{x-4}{5x^2-x+7} dx$</p> <p>$\int \frac{dx}{\sqrt{4-3x-x^2}}$</p> <p>$\int \frac{3x^2-15}{(x-1)(x^2+5x+6)} dx$</p> <p>$\int \frac{4x+2}{x^4+4x^2} dx$</p>
<p>9. $\int \frac{2x^4-3}{x^2+1} dx$</p> <p>$\int \frac{x-3}{4x^2+2x-3} dx$</p> <p>$\int \frac{2x-1}{x^2+4x-3} dx$</p> <p>$\int \frac{2x^4+8x^3-45x^2-61}{(x-1)(x^2+5x+6)} dx$</p> <p>$\int \frac{2x^5-2x^3-x^2}{1-x^4} dx$</p>	<p>10. $\int \frac{x^3}{x^2-1} dx$</p> <p>$\int \frac{3x-2}{x^2+5x-1} dx$</p> <p>$\int \frac{dx}{2x^2-7x+1}$</p> <p>$\int \frac{2x^4+8x^3+9x^2-7}{(x^2+x-2)(x+3)} dx$</p> <p>$\int \frac{5x^3-x^2+21x-9}{x^4+10x^2+9} dx$</p>	<p>11. $\int \frac{x^4-2x^2-1}{x^2+1} dx$</p> <p>$\int \frac{2x-1}{x^2-2x-3} dx$</p> <p>$\int \frac{dx}{2x^2+x-6}$</p> <p>$\int \frac{2x^4+17x^3+32x^2-7x}{(x^2+4x+3)(x+5)} dx$</p> <p>$\int \frac{x^3+x^2+x-1}{x^4+5x^2+4} dx$</p>	<p>12. $\int \frac{7-x}{1-x} dx$</p> <p>$\int \frac{3x-1}{3+x-2x^2} dx$</p> <p>$\int \frac{dx}{x^2-4x+10}$</p> <p>$\int \frac{x^3-4x+5}{(x-1)(x^2-1)} dx$</p> <p>$\int \frac{2x+3}{(x-1)(x^3-x^2+4x-4)} dx$</p>

<p>13. $\int \frac{x^2 + 4}{x - 3} dx$</p> <p>$\int \frac{4x - 1}{4x^2 - 4x + 5} dx$</p> <p>$\int \frac{dx}{5x - x^2 - 6}$</p> <p>$\int \frac{2x^3 + 2x^2 + 4x + 3}{x^3 + x^2} dx$</p> <p>$\int \frac{x^2 - 6x + 8}{x^3 + 8} dx$</p>	<p>14. $\int \frac{1 - 2x - x^2}{x^2 + 1} dx$</p> <p>$\int \frac{xdx}{2x^2 + x + 5}$</p> <p>$\int \frac{dx}{3x^2 - 8x - 3}$</p> <p>$\int \frac{x + 5}{x^3 - x^2 - x + 1} dx$</p> <p>$\int \frac{3x + 13}{(x - 1)(x^2 + 2x + 5)} dx$</p>	<p>15. $\int \frac{1 - x^4}{x^2 + 4} dx$</p> <p>$\int \frac{xdx}{2x^2 + 2x + 5}$</p> <p>$\int \frac{dx}{2x^2 + x + 2}$</p> <p>$\int \frac{3x^2 - 7x + 2}{(x - 1)(x^2 - x)} dx$</p> <p>$\int \frac{4x + 2}{x^4 + 4x^2} dx$</p>	<p>16. $\int \frac{x^2 - 5x + 6}{x^2 + 4} dx$</p> <p>$\int \frac{x - 4}{3x^2 + x - 1} dx$</p> <p>$\int \frac{dx}{4x^2 - 5x + 4}$</p> <p>$\int \frac{1}{x^3 - x^2} dx$</p> <p>$\int \frac{3 - 9x}{x^3 - 1} dx$</p>
<p>17. $\int \frac{x^3 - 1}{2x + 1} dx$</p> <p>$\int \frac{3x - 2}{5x^2 - 3x + 2} dx$</p> <p>$\int \frac{dx}{\sqrt{2x^2 - x + 3}}$</p> <p>$\int \frac{x^2 + x + 2}{x^3 + x^2} dx$</p> <p>$\int \frac{x^2 - 13x + 40}{(x + 1)(x^2 - 4x + 13)} dx$</p>	<p>18. $\int \frac{x^5}{1 - x^3} dx$</p> <p>$\int \frac{x + 5}{x^2 + x - 2} dx$</p> <p>$\int \frac{dx}{\sqrt{3x - 2x^2}}$</p> <p>$\int \frac{2x^2 + 1}{x^3 - 2x^2 + x} dx$</p> <p>$\int \frac{9x - 9}{(x + 1)(x^2 - 4x + 13)} dx$</p>	<p>19. $\int \frac{2x^2 + 3}{2x^2 - 1} dx$</p> <p>$\int \frac{x + 4}{2x^2 - 6x - 8} dx$</p> <p>$\int \frac{dx}{8 - 2x - x^2}$</p> <p>$\int \frac{2x^3 + 5x^2 - 1}{x^3 + x^2} dx$</p> <p>$\int \frac{4x - x^2 - 12}{x^3 + 8} dx$</p>	<p>20. $\int \frac{x^4 + 1}{x^2 + 1} dx$</p> <p>$\int \frac{x + 1}{2x^2 + x + 1} dx$</p> <p>$\int \frac{dx}{\sqrt{2x^2 - 8x + 1}}$</p> <p>$\int \frac{3x^2 + 3x - 24}{(x^2 - x - 2)(x - 3)} dx$</p> <p>$\int \frac{x^3 - 2x^2 + 5}{x^4 - 1} dx$</p>
<p>21. $\int \frac{8x^3 - 1}{2x + 1} dx$</p> <p>$\int \frac{4x + 8}{4x^2 + 6x - 13} dx$</p> <p>$\int \frac{dx}{\sqrt{x^2 - 5x + 6}}$</p> <p>$\int \frac{12dx}{(x - 2)(x^2 - 2x - 3)}$</p> <p>$\int \frac{4x^2 - 2}{x^4 - x^2} dx$</p>	<p>22. $\int \frac{x^2}{x^2 + 3} dx$</p> <p>$\int \frac{x + 1}{3x^2 - 2x - 3} dx$</p> <p>$\int \frac{dx}{\sqrt{3x + 2 - 2x^2}}$</p> <p>$\int \frac{1}{x^3 + x^2} dx$</p> <p>$\int \frac{x^2 - 5x + 40}{(x + 2)(x^2 - 2x + 10)} dx$</p>	<p>23. $\int \frac{x^3 + 5x}{x^2 + 1} dx$</p> <p>$\int \frac{5x - 2}{2x^2 - 5x + 2} dx$</p> <p>$\int \frac{dx}{\sqrt{x^2 + 3x + 1}}$</p> <p>$\int \frac{6x - 2x^2 - 1}{x^3 - 2x^2 + x} dx$</p> <p>$\int \frac{7x - 2}{(x - 1)(x^2 + 4)} dx$</p>	<p>24. $\int \frac{x^4}{x^2 - 3} dx$</p> <p>$\int \frac{x + 6}{3x^2 - 2x + 6} dx$</p> <p>$\int \frac{dx}{\sqrt{2 - x - 2x^2}}$</p> <p>$\int \frac{3x^2 + 2}{x(x + 1)^2} dx$</p> <p>$\int \frac{x^3 + 4x - 3}{x^4 + 4x^2} dx$</p>

25. $\int \frac{2x^3 + 3}{x-1} dx$ $\int \frac{x-3}{x^2 - 5x + 4} dx$ $\int \frac{dx}{5x^2 + 2x + 7}$ $\int \frac{2x^4 - 7x^3 + 7x^2 - 8x}{(x^2 - 5x + 6)(x+1)} dx$ $\int \frac{4x+2}{x^4 + 4x^2} dx$	26. $\int \frac{2x^2 + 5}{x-7} dx$ $\int \frac{5x+1}{x^2 - 4x + 1} dx$ $\int \frac{dx}{\sqrt{3-x-x^2}}$ $\int \frac{2x^4 - 7x^3 + 3x^2 + 20}{(x-2)(x^2 - 2x - 3)} dx$ $\int \frac{x^2 - 6x + 8}{x^3 + 8} dx$	27. $\int \frac{6x^3 - 2x + 1}{2x+1} dx$ $\int \frac{2x-1}{3x^2 + x + 1} dx$ $\int \frac{dx}{\sqrt{x^2 + 4x + 1}}$ $\int \frac{37x-85}{(x^2 + 2x - 3)(x-4)} dx$ $\int \frac{3x-8}{(x-1)^2(x^2 + 4)} dx$	28. $\int \frac{x^3 - 3}{x+5} dx$ $\int \frac{x+1}{2x^2 + 3x - 4} dx$ $\int \frac{dx}{\sqrt{5-7x-3x^2}}$ $\int \frac{6x^2 + 6x - 6}{(x+1)(x^2 + x - 2)} dx$ $\int \frac{4x^2 + 3x + 17}{(x-1)(x^2 + 2x + 5)} dx$
29. $\int \frac{x^5 - 2}{x^2 - 4} dx$ $\int \frac{2-x}{x^2 + 4x - 3} dx$ $\int \frac{dx}{2x^2 + 3x}$ $\int \frac{43x-67}{(x-1)(x^2 - x - 12)} dx$ $\int \frac{2x^3 - 2x - 5}{x^4 + 3x^2 - 4} dx$	30. $\int \frac{x^3 + 2}{x^2 - 1} dx$ $\int \frac{x+4}{2x^2 - 7x + 1} dx$ $\int \frac{dx}{2x^2 - 2x + 1}$ $\int \frac{8x dx}{(x^2 + 6x + 5)(x+3)}$ $\int \frac{x^3 - 2x^2 + 4x - 2}{x^4 + 3x^2 - 4} dx$		

ІЗ – 2.28

Знайти невизначені інтеграли

1. $\int x^3 \cdot \sqrt{9-x^2} dx$ $\int \frac{dx}{x \cdot \sqrt{x^2 - x - 1}}$ $\int \frac{2x+4}{\sqrt{3x^2 + x - 5}} dx$ $\int \frac{dx}{1 + \sqrt{x-2}}$ $\int \frac{\sqrt{x}}{1 - \sqrt[4]{x}} dx$	2. $\int \frac{\sqrt{4-x^2}}{x^4} dx$ $\int \frac{dx}{x \cdot \sqrt{1+x-x^2}}$ $\int \frac{5x-3}{\sqrt{2x^2 + 4x - 3}} dx$ $\int \frac{dx}{x \cdot \sqrt{x-2}}$ $\int \frac{dx}{\sqrt[3]{(2x+1)^2} - \sqrt{2x+1}}$	3. $\int \frac{\sqrt{x^2 + 4}}{x^2} dx$ $\int \frac{dx}{x \cdot \sqrt{x^2 + 1}}$ $\int \frac{3x+2}{\sqrt{4+2x-x^2}} dx$ $\int \frac{dx}{x\sqrt{x-7}}$ $\int \frac{\sqrt{x}-1}{(1+\sqrt[3]{x})\sqrt{x}} dx$	4. $\int \frac{\sqrt{x^2 + 4}}{x^4} dx$ $\int \frac{dx}{x \cdot \sqrt{x^2 + x - 1}}$ $\int \frac{x+5}{\sqrt{3-6x-x^2}} dx$ $\int \frac{x^3 dx}{\sqrt{x-7}}$ $\int \frac{\sqrt{x} - \sqrt[3]{x}}{\sqrt[3]{x} - \sqrt[6]{x} - 1} dx$
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<p>5. $\int \frac{\sqrt{x^2 - 9}}{x^2} dx$</p> <p>$\int \frac{dx}{(x-1) \cdot \sqrt{x^2 - x - 1}}$</p> <p>$\int \frac{3x-4}{\sqrt{2x^2 - 6x + 1}} dx$</p> <p>$\int \frac{\sqrt{x+4}}{x} dx$</p> <p>$\int \frac{\sqrt{x+3}}{1 + \sqrt[3]{x+3}} dx$</p>	<p>6. $\int \frac{\sqrt{x^2 - 9}}{x} dx$</p> <p>$\int \frac{dx}{(x-1) \cdot \sqrt{1+x-x^2}}$</p> <p>$\int \frac{7x-1}{\sqrt{2-3x-x^2}} dx$</p> <p>$\int \frac{x^3 dx}{\sqrt{x+2}}$</p> <p>$\int \frac{\sqrt{x+3}}{\sqrt[3]{x+3} + \sqrt{x+3}} dx$</p>	<p>7. $\int \sqrt{4-x^2} dx$</p> <p>$\int \frac{dx}{(x+1) \cdot \sqrt{x^2 + 1}}$</p> <p>$\int \frac{2x+5}{\sqrt{3x^2 + 9x - 4}} dx$</p> <p>$\int \frac{x^2 dx}{\sqrt{x-4}}$</p> <p>$\int \frac{\sqrt[6]{x+3}}{\sqrt[3]{x+3} + \sqrt{x+3}} dx$</p>	<p>8. $\int \frac{\sqrt{(4-x^2)^3}}{x^6} dx$</p> <p>$\int \frac{dx}{(x+1) \cdot \sqrt{x^2 - x + 1}}$</p> <p>$\int \frac{3x+4}{\sqrt{2+3x-x^2}} dx$</p> <p>$\int \frac{dx}{\sqrt{x}(x-1)}$</p> <p>$\int \frac{\sqrt{3x+1} + 2}{\sqrt{3x+1} + 2\sqrt[3]{3x+1}} dx$</p>
<p>9. $\int \frac{\sqrt{x^2 + 9}}{x} dx$</p> <p>$\int \frac{dx}{(x+1) \cdot \sqrt{1-x-x^2}}$</p> <p>$\int \frac{2x+3}{\sqrt{2x^2 - x + 6}} dx$</p> <p>$\int \frac{\sqrt{x} dx}{x+10}$</p> <p>$\int \frac{\sqrt[6]{3x+1} + 1}{\sqrt{3x+1} - \sqrt[3]{3x+1}} dx$</p>	<p>10. $\int \frac{dx}{\sqrt{(1+x^2)^3}}$</p> <p>$\int \frac{dx}{(x-1) \cdot \sqrt{1-x-x^2}}$</p> <p>$\int \frac{x-8}{\sqrt{4x^2 + x - 5}} dx$</p> <p>$\int \frac{x^2 dx}{\sqrt{x-2}}$</p> <p>$\int \frac{\sqrt{x}}{4x - \sqrt[3]{x^2}} dx$</p>	<p>11. $\int \frac{dx}{x^2 \cdot \sqrt{x^2 - 1}}$</p> <p>$\int \frac{dx}{x \cdot \sqrt{x^2 + x - 3}}$</p> <p>$\int \frac{4x+3}{\sqrt{2x^2 - x + 5}} dx$</p> <p>$\int \frac{x-1}{x\sqrt{x-2}} dx$</p> <p>$\int \frac{x+1 + \sqrt[3]{(x+1)^2} + \sqrt[6]{x+1}}{(x+1)(1 + \sqrt[3]{x+1})} dx$</p>	<p>12. $\int \frac{\sqrt{x^2 - 1}}{x} dx$</p> <p>$\int \frac{dx}{x \cdot \sqrt{1-x-x^2}}$</p> <p>$\int \frac{4x+1}{\sqrt{2+x-x^2}} dx$</p> <p>$\int \frac{x^3 dx}{\sqrt{x+6}}$</p> <p>$\int \frac{\sqrt[3]{x} + \sqrt{x}}{\sqrt{x} + \sqrt[6]{x}} dx$</p>
<p>13. $\int \frac{\sqrt{16-x^2}}{x^4} dx$</p> <p>$\int \frac{dx}{x \cdot \sqrt{x^2 - 3x + 2}}$</p> <p>$\int \frac{2x-1}{\sqrt{x^2 - 3x + 4}} dx$</p> <p>$\int \frac{x+1}{x\sqrt{x-1}} dx$</p> <p>$\int \frac{\sqrt[6]{x-1}}{\sqrt[3]{x-1} + \sqrt{x-1}} dx$</p>	<p>14. $\int \frac{dx}{\sqrt{(9+x^2)^3}}$</p> <p>$\int \frac{dx}{(x-1) \cdot \sqrt{x^2 + x - 1}}$</p> <p>$\int \frac{x-4}{\sqrt{2x^2 - x + 7}} dx$</p> <p>$\int \frac{dx}{1 + \sqrt{x-1}}$</p> <p>$\int \frac{\sqrt{x}}{x - 4\sqrt[3]{x^2}} dx$</p>	<p>15. $\int x^2 \cdot \sqrt{1-x^2} dx$</p> <p>$\int \frac{dx}{(x+1) \cdot \sqrt{2-x-x^2}}$</p> <p>$\int \frac{3x-1}{\sqrt{2x^2 - 5x + 1}} dx$</p> <p>$\int \frac{dx}{2 + \sqrt{x-8}}$</p> <p>$\int \frac{\sqrt{x}}{x - \sqrt[3]{x^2}} dx$</p>	<p>16. $\int \frac{\sqrt{16-x^2}}{x^2} dx$</p> <p>$\int \frac{dx}{x \cdot \sqrt{1-3x-2x^2}}$</p> <p>$\int \frac{x-7}{\sqrt{3x^2 - 2x + 1}} dx$</p> <p>$\int \frac{dx}{3 + \sqrt{x-6}}$</p> <p>$\int \frac{\sqrt{x}}{3x + \sqrt[3]{x^2}} dx$</p>

<p>17. $\int \frac{\sqrt{1-x^2}}{x} dx$</p> <p>$\int \frac{dx}{x \cdot \sqrt{x^2-1}}$</p> <p>$\int \frac{2x+7}{\sqrt{x^2+5x-4}} dx$</p> <p>$\int \frac{dx}{2+\sqrt{x+3}}$</p> <p>$\int \frac{(\sqrt[3]{x+1})\sqrt{x+1}}{\sqrt[6]{x^5}} dx$</p>	<p>18. $\int \frac{dx}{x^2 \cdot \sqrt{x^2+9}}$</p> <p>$\int \frac{dx}{(x+1) \cdot \sqrt{1+x-x^2}}$</p> <p>$\int \frac{3x-7}{\sqrt{x^2-5x+1}} dx$</p> <p>$\int \frac{x \cdot dx}{\sqrt{x+3}}$</p> <p>$\int \frac{\sqrt[4]{x} + \sqrt{x}}{\sqrt{x+1}} dx$</p>	<p>19. $\int \frac{x^2 dx}{\sqrt{9-x^2}}$</p> <p>$\int \frac{dx}{(x-1) \cdot \sqrt{x^2-x+1}}$</p> <p>$\int \frac{x-6}{\sqrt{3-2x-x^2}} dx$</p> <p>$\int \frac{x^3 dx}{\sqrt{x+1}}$</p> <p>$\int \frac{\sqrt{2x+1} + \sqrt[3]{2x+1}}{\sqrt{2x+1}} dx$</p>	<p>20. $\int \frac{dx}{\sqrt{(x^2-1)^3}}$</p> <p>$\int \frac{dx}{x \cdot \sqrt{x^2+x-2}}$</p> <p>$\int \frac{x-9}{\sqrt{4+2x-x^2}} dx$</p> <p>$\int \frac{x^2 dx}{\sqrt{x-3}}$</p> <p>$\int \frac{\sqrt{x-1} - 2\sqrt[3]{x-1}}{2\sqrt[3]{x-1} + \sqrt{x-1}} dx$</p>
<p>21. $\int \frac{dx}{x^3 \cdot \sqrt{x^2-1}}$</p> <p>$\int \frac{dx}{(x+1) \cdot \sqrt{x^2-x-1}}$</p> <p>$\int \frac{x-1}{\sqrt{3x^2-x+5}} dx$</p> <p>$\int \frac{x \cdot dx}{2+\sqrt{x+4}}$</p> <p>$\int \frac{\sqrt[3]{(x+1)^2} + \sqrt[6]{x+1}}{\sqrt[3]{x+1} + \sqrt{x+1}} dx$</p>	<p>22. $\int \frac{\sqrt{(4-x^2)^3}}{x^4} dx$</p> <p>$\int \frac{dx}{(x+1) \cdot \sqrt{x^2+x-1}}$</p> <p>$\int \frac{2x-10}{\sqrt{1+x-x^2}} dx$</p> <p>$\int \frac{dx}{\sqrt{x}(x+3)}$</p> <p>$\int \frac{x + \sqrt[3]{x^2} + \sqrt[6]{x}}{x(1+\sqrt[3]{x})} dx$</p>	<p>23. $\int \frac{\sqrt{1-x^2}}{x^4} dx$</p> <p>$\int \frac{dx}{(x-1) \cdot \sqrt{x^2+x+1}}$</p> <p>$\int \frac{2x-8}{\sqrt{1+x-x^2}} dx$</p> <p>$\int \frac{\sqrt{x-1}}{\sqrt[3]{x-1} + \sqrt[6]{x-1}} dx$</p> <p>$\int \frac{\sqrt{x+2}}{x-3} dx$</p>	<p>24. $\int \frac{\sqrt{9+x^2}}{x^4} dx$</p> <p>$\int \frac{dx}{(x+1) \cdot \sqrt{x^2+x+1}}$</p> <p>$\int \frac{7x-2}{\sqrt{x^2-5x+1}} dx$</p> <p>$\int \frac{\sqrt{x} dx}{\sqrt{x-1}}$</p> <p>$\int \frac{1+\sqrt{x+1}}{(1+\sqrt[3]{x+1}) \cdot \sqrt{x+1}} dx$</p>
<p>25. $\int x^3 \cdot \sqrt{1-x^2} dx$</p> <p>$\int \frac{dx}{(x-1) \cdot \sqrt{x^2-1}}$</p> <p>$\int \frac{x+1}{\sqrt{4x^2+8x+9}} dx$</p> <p>$\int \frac{dx}{(x+1)\sqrt{x+4}}$</p> <p>$\int \frac{\sqrt{x}}{1-\sqrt[3]{x}} dx$</p>	<p>26. $\int \frac{dx}{\sqrt{(4+x^2)^3}}$</p> <p>$\int \frac{dx}{x \cdot \sqrt{x^2+x-2}}$</p> <p>$\int \frac{3x+4}{\sqrt{x^2+6x+13}} dx$</p> <p>$\int \frac{dx}{\sqrt{x+3}}$</p> <p>$\int \frac{\sqrt{x}}{1+\sqrt[4]{x}} dx$</p>	<p>27. $\int \frac{dx}{\sqrt{(1+x^2)^5}}$</p> <p>$\int \frac{dx}{(x+1) \cdot \sqrt{x^2-1}}$</p> <p>$\int \frac{2x-13}{\sqrt{3x^2-3x-16}} dx$</p> <p>$\int \frac{x+1}{x+\sqrt{x}} dx$</p>	<p>28. $\int \frac{\sqrt{9-x^2}}{x^4} dx$</p> <p>$\int \frac{dx}{x \cdot \sqrt{1-x^2}}$</p> <p>$\int \frac{x-3}{\sqrt{2x^2-4x-1}} dx$</p> <p>$\int \frac{x dx}{\sqrt{x-1}}$</p>

29. $\int \frac{\sqrt{x^2+4}}{x} dx$ $\int \frac{dx}{(x+1)\sqrt{x^2+x-2}}$ $\int \frac{2x+1}{\sqrt{1+x-3x^2}} dx$ $\int \frac{dx}{3+\sqrt{x+5}}$ $\int \frac{\sqrt{3x+1}-1}{\sqrt{3x+1}+\sqrt[3]{3x+1}} dx$	30. $\int \frac{dx}{x^2 \cdot \sqrt{(x^2-1)^3}}$ $\int \frac{dx}{(x+1)\sqrt{1+x-x^2}}$ $\int \frac{5x+2}{\sqrt{x^2+3x-4}} dx$ $\int \frac{x+1}{x\sqrt{x+2}} dx$ $\int \frac{\sqrt{x+1}-1}{(x+1)\cdot(1+\sqrt[3]{x+1})} dx$	$\int \frac{x+\sqrt{x}+\sqrt[3]{x^2}}{x(1+\sqrt[3]{x})} dx$	$\int \frac{x-\sqrt[3]{x^2}}{x(1+\sqrt[6]{x})} dx$
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ІЗ – 2.29

Знайти невизначені інтеграли

1. $\int \sin^2 \frac{3x}{2} dx$ $\int \cos 7x \cos 5x dx$ $\int \frac{dx}{5+3\cos x-5\sin x}$ $\int \frac{dx}{4\sin^2 x-5\cos^2 x}$ $\int \sqrt[5]{\cos^4 x} \cdot \sin^3 x dx$	2. $\int \cos^3(x+3) dx$ $\int \cos 3x \cos x dx$ $\int \frac{dx}{3\sin x-4\cos x}$ $\int \frac{dx}{7\cos^2 x+2\sin^2 x}$ $\int \sin^2 2x \cdot \cos^4 2x dx$	3. $\int (1-\cos x)^2 dx$ $\int \sin 5x \cos x dx$ $\int \frac{dx}{7\sin x-3\cos x}$ $\int \frac{dx}{1+3\cos^2 x}$ $\int \sqrt[5]{\cos^3 2x} \cdot \sin^3 2x dx$	4. $\int \sin^2(2x-1) dx$ $\int \cos^4 2x \sin 2x dx$ $\int \frac{dx}{8-4\sin x+7\cos x}$ $\int \frac{dx}{3\cos^2 x+4\sin^2 x}$ $\int \sin^4 x \cdot \cos^3 x dx$
5. $\int \sin^2 \frac{x}{2} dx$ $\int \sin^2 2x \cos x dx$ $\int \frac{dx}{3+2\cos x-\sin x}$ $\int \frac{dx}{\cos^2 x+3\sin^2 x}$ $\int \sin^5 x \cdot \sqrt[5]{\cos^3 x} dx$	6. $\int \sin^3 6x dx$ $\int \sin^3 7x \cos 7x dx$ $\int \frac{3\sin x-2\cos x}{1+\cos x} dx$ $\int \frac{2\operatorname{tg} x+3}{\sin^2 x+2\cos^2 x} dx$ $\int \sin^4 x \cdot \cos^5 x dx$	7. $\int \cos^2 3x dx$ $\int \operatorname{tg}^2 3x dx$ $\int \frac{dx}{3+5\cos x}$ $\int \frac{dx}{2\sin^2 x-\sin x}$ $\int \sin^4 3x \cdot \cos^2 3x dx$	8. $\int \sin^3 \frac{4x}{5} dx$ $\int \frac{\cos 2x}{\sin^4 2x} dx$ $\int \frac{dx}{5+2\sin x+3\cos x}$ $\int \frac{dx}{\sin^2 x-2\sin x \cos x}$ $\int \frac{\sin^3 x}{\sqrt[3]{\cos^2 x}} dx$
9. $\int \cos^3(1-x) dx$ $\int \left(1-2\sin \frac{x}{5}\right)^2 dx$	10. $\int (3-\sin 2x)^2 dx$ $\int \operatorname{ctg}^3(x-6) dx$	11. $\int \left(1+2\cos \frac{x}{2}\right)^2 dx$ $\int \operatorname{tg}^2 7x dx$	12. $\int \operatorname{tg}^2 \frac{x}{3} dx$

$\int \frac{dx}{5+4\sin x}$ $\int \frac{\sin 2x}{\sin^4 x + \cos^4 x} dx$ $\int \frac{\sin^3 x}{\sqrt[3]{\cos^2 x}} dx$	$\int \frac{dx}{2\sin x + 3\cos x + 3}$ $\int \frac{\operatorname{tg} x}{1 - \operatorname{ctg}^2 x} dx$ $\int \frac{3\cos^3 x}{\sin^4 x} dx$	$\int \frac{dx}{5 - 3\cos x}$ $\int \frac{dx}{1 + \sin^2 x}$ $\int \sin^3 x \cdot \cos^8 x dx$	$\int \sin^2 \left(\frac{x}{2} + 1 \right) dx$ $\int \frac{dx}{5\cos x + 7\sin x}$ $\int \frac{\sin 2x}{4\sin^4 x + \cos^4 x} dx$ $\int \frac{\sin^3 2x}{\sqrt[3]{\cos^2 2x}} dx$
13. $\int \cos^3 5x \sin 5x dx$ $\int \operatorname{tg}^2 2x dx$ $\int \frac{dx}{4\cos x + 3\sin x}$ $\int \frac{dx}{\sin^2 x - 2\sin 2x + 5\cos^2 x}$ $\int \sin^5 x \cdot \cos^4 x dx$	14. $\int (1 + \cos 3x)^2 dx$ $\int x \operatorname{tg}^2 x^2 dx$ $\int \frac{dx}{5 + \sin x + 3\cos x}$ $\int \frac{dx}{3\sin^2 x + 8\sin x \cos x}$ $\int \cos^4 3x \cdot \sin^2 3x dx$	15. $\int (\cos x + 3)^2 dx$ $\int \operatorname{tg}^2 x dx$ $\int \frac{dx}{2 + 4\sin x + 3\cos x}$ $\int \frac{dx}{3\cos^2 x - 2}$ $\int \sqrt[5]{\sin^4 x \cdot \cos^3 x} dx$	16. $\int \cos^2 3,5x dx$ $\int \operatorname{tg}^4 3x dx$ $\int \frac{2 - \sin x + 3\cos x}{1 + \cos x} dx$ $\int \frac{dx}{4\cos^2 x + 3\sin^2 x}$ $\int \sqrt[5]{\sin^3 2x \cdot \cos^3 2x} dx$
17. $\int \sin^2 (1-x) dx$ $\int \sin 3x \cos 2x dx$ $\int \frac{dx}{5 - 4\sin x + 2\cos x}$ $\int \frac{dx}{\sin^2 x + \sin 2x + 3\cos^2 x}$ $\int \cos^3 x \cdot \sin^8 x dx$	18. $\int \sin^3 5x dx$ $\int \operatorname{ctg}^2 5x dx$ $\int \frac{dx}{8 + 4\cos x}$ $\int \frac{dx}{5\sin^2 x - 3\cos^2 x}$ $\int \frac{\cos^3 x}{\sqrt[3]{\sin^4 x}} dx$	19. $\int \sin^3 (1-x) dx$ $\int \operatorname{tg}^3 \frac{x}{3} dx$ $\int \frac{dx}{3 + \cos x + \sin x}$ $\int \frac{dx}{\cos^2 x + 3}$ $\int \sqrt[3]{\sin^2 x \cdot \cos^3 x} dx$	20. $\int \cos^4 x dx$ $\int \operatorname{ctg}^3 3x dx$ $\int \frac{dx}{5 + 3\cos x}$ $\int \frac{dx}{3 - 2\sin^2 x}$ $\int \sqrt[3]{\cos^2 x \cdot \sin^3 x} dx$
21. $\int (\sin x - 5)^2 dx$ $\int \operatorname{tg}^3 5x dx$ $\int \frac{dx}{3\cos x - 4\sin x}$ $\int \frac{dx}{2\sin^2 x - \sin 2x + \cos^2 x}$ $\int \frac{\sin^3 x}{\sqrt[5]{\cos^3 x}} dx$	22. $\int \cos^3 3x dx$ $\int \sin 4x \cos 2x dx$ $\int \frac{7 + 6\sin x - 5\cos x}{1 + \cos x} dx$ $\int \frac{3\operatorname{tg} x - 1}{\sin^2 x + 4\cos^2 x} dx$ $\int \frac{3\sin^3 x}{\cos^4 x} dx$	23. $\int \sin^4 2,5x dx$ $\int \frac{\sin 3x}{\cos^2 x} dx$ $\int \frac{dx}{5 + 4\sin x + 3\cos x}$ $\int \frac{\cos^2 x}{1 + \sin^2 x} dx$ $\int \frac{\sin^3 x}{\sqrt[3]{\cos^4 x}} dx$	24. $\int \sin^4 2x dx$ $\int \operatorname{tg}^5 x dx$ $\int \frac{6\sin x + \cos x}{1 + \cos x} dx$ $\int \frac{dx}{3 - \cos^2 x}$ $\int \frac{\cos^3 x}{\sqrt[3]{\sin^2 x}} dx$
25. $\int \frac{\cos x}{\sin^4 x} dx$	26. $\int \sin^2 5x dx$ $\int (1 - \operatorname{tg} 2x)^2 dx$	27. $\int \sin^2 \frac{3x}{4} dx$	28. $\int \sin^3 4x dx$ $\int \sin 2x \sin 3x dx$

$\int \frac{\sin x \cos 4x}{dx} dx$ $\int \frac{dx}{\cos x - 3 \sin x}$ $\int \frac{\operatorname{tg} x \cdot dx}{\sin^2 x + 3 \cos^2 x}$ $\int \sin^4 x \cdot \cos^2 x dx$	$\int \frac{dx}{\sin x - 3 \cos x}$ $\int \frac{\sin^2 x}{3 \sin^2 x - \cos^2 x} dx$ $\int \sin^4 2x \cdot \cos^2 2x dx$	$\int \cos 2x \cos 5x dx$ $\int \frac{dx}{4 - 4 \sin x + 3 \cos x}$ $\int \frac{\sin 2x}{\sin^4 x + 4 \cos^4 x} dx$ $\int \sin^2 x \cdot \cos^4 x dx$	$\int \frac{dx}{2 - 3 \cos x + \sin x}$ $\int \frac{dx}{7 \cos^2 x + 16 \sin^2 x}$ $\int \cos^4 x \cdot \sin^3 x dx$
<p>29. $\int \cos^2 7,5x dx$</p> $\int \operatorname{ctg}^3 x dx$ $\int \frac{dx}{4 \sin x - 5 \cos x}$ $\int \frac{dx}{\sin^2 x + 3 \sin x \cos x - \cos^2 x}$ $\int \frac{\cos^3 x}{\sqrt[5]{\sin^3 x}} dx$	<p>30. $\int \cos^2 \frac{2x}{5} dx$</p> $\int \frac{\sin x \cos^3 x}{dx} dx$ $\int \frac{dx}{3 + 5 \sin x + 3 \cos x}$ $\int \frac{\cos^3 2x}{\sqrt[3]{\sin^2 2x}} dx$ $\int \frac{dx}{5 + 3 \sin^2 x}$		