

1) $\int (3x-1)^5 dx;$

2) $\int (2x+7)^8 dx;$

3) $\int \frac{x^3 dx}{x+3};$

4) $\int \frac{x dx}{(x-1)^{12}};$

5) $\int \frac{dx}{x^2+10x+41};$

6) $\int \frac{dx}{x^2+7x-8};$

7) $\int \frac{dx}{x^2+8x+25};$

8) $\int \frac{dx}{5-12x-9x^2}.$

1) $\int \frac{x dx}{x^2-5x+6};$

2) $\int \frac{(x+3) dx}{x^2-4x+4};$

3) $\int \frac{(x+2) dx}{x^2+x+1};$

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

13.13. 1) $\int \frac{x dx}{(1-x^2)^2};$

1) $\int \frac{x dx}{(1-x^2)^2};$

2) $\int \frac{x dx}{x^4+6x^2+5};$

3) $\int \frac{6x+7}{3x^2+7x+4} dx;$

4) $\int \frac{3x^2-1}{x^3-x+1} dx;$

5) $\int \frac{x^5 dx}{7x^6+1};$

6) $\int \frac{x^2 dx}{(3+5x^3)^7};$

7) $\int \frac{x^7 dx}{x^{16}+1};$

8) $\int \frac{x^2+1}{x^4+1} dx.$

1) $\int \sqrt{2-5x} dx;$

2) $\int \frac{dx}{\sqrt[3]{1+x}};$

3) $\int \frac{x dx}{\sqrt{2x+3}};$

4) $\int \frac{x^2}{\sqrt{2-x}} dx;$

5) $\int \frac{dx}{\sqrt{27+6x-x^2}};$

6) $\int \frac{dx}{\sqrt{x^2+4x+7}};$

7) $\int \frac{dx}{\sqrt{x-x^2}};$

8) $\int \frac{dx}{\sqrt{x^2+3x}};$

9) $\int x\sqrt{3x^2-1} dx;$

10) $\int x^2\sqrt{x^3+1} dx.$

1) $\int xe^{-x^2} dx;$

2) $\int x^3 e^{x^4} dx;$

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

4) $\int \frac{e^{\sqrt{x}}}{\sqrt{x}} dx;$

5) $\int \frac{e^x dx}{\sqrt{4-e^{2x}}};$

6) $\int \frac{dx}{\sqrt{e^x+1}}.$

1) $\int \frac{\ln^2 x}{x} dx;$

2) $\int \frac{\ln x dx}{x\sqrt{1+\ln x}};$

3) $\int \frac{dx}{(1+x^2)\arctg x};$

4) $\int \frac{\sqrt{\arctg 2x}}{1+4x^2} dx;$

5) $\int \frac{\arcsin^3 x}{\sqrt{1-x^2}} dx;$

6) $\int \sqrt{\frac{\arccos x}{1-x^2}} dx.$