

1. Aniq emes integral ha'm oni tabiwadin' a'piwayi usillari

Tayanish tu'sinik: Baslang'ish funksiya ha'm aniq emes integral. Tiykarg'i integrallar kelesi. Aniq emes integralda o'zgeriwshilerdi almashtiruv usuli.

2. Aniq integraldin' fizikag'a qollanilwari

Tayanish tu'sinik: O'zgeriwshi ku'shtin' orinlang'an jumisi ha'm oni aniq integral ja'rdeminde esaplaw. Tegis dog'a ha'm figuranin' awirliq oraylarinin' koordinatalarin, inersiya momentin esaplaw formulalari.

3. Aniq integraldin' aniqlamasi, onin' bar boliv sha'rtleri

Tayanish tu'sinik: Integral qosindi, aniq integral aniqlamasi. Darbu qosindilari ha'm olardin' qa'siyetleri.

4. Ratsional, a'piwayi irratsional transsendent funksiyalardi integrallaw

Tayanish tu'sinik: A'piwayi ratsional bo'lshekler ha'm olardi integrallaw.. Duris ratsional bo'lsheklerdi integrallaw.

5. Shegaralanbag'an funktsiyanin' menshiksiz integrali

Tayanish tu'sinik: Shegaralanbag'an funktsiyanin' menshiksiz integrali. Shegaralanbag'an funktsiyanin' menshiksiz integralinin' qa'siyetleri.

6. Nyuton-Leybnis formulasi. O'zgeriwshini almashtiruv ha'm bo'leklep integrallaw usillari

Tayanish tu'sinik: Nyuton – Leybnis formulasi. O'zgeriwshini almashtiruv ha'm bo'leklep integrallaw usillari.

7. Ratsional, a'piwayi irratsional transsendent funksiyalardi integrallaw

Tayanish tu'sinik: A'piwayi ratsional bo'lshekler ha'm olardi integrallaw.. Duris ratsional bo'lsheklerdi integrallaw.

8. Shegaralanbag'an funktsiyanin' menshiksiz integrali

Tayanish tu'sinik: Shegaralanbag'an funktsiyanin' menshiksiz integrali. Shegaralanbag'an funktsiyanin' menshiksiz integralinin' qa'siyetleri.

9. Aniq integraldin' geometrikaliq u'lkenliklerdi esaplawg'a qollanilwi

Tayanish tu'sinik: Maydandi esaplaw formulalari. Polyar koordinatalar sistemasinda figuranin' maydanin esaplaw. Ken'isliktegi dene ko'lemin esaplaw. Iymek siziq dog'a uzinlig'in esaplaw.

10. Eyler almashtirwari. Trigonometrik an'latpalardi integrallaw. Universal usuli.

Tayanish tu'sinik: Eyler almashtirwari. Trigonometrik an'latpalardi integrallaw. Universal usuli.

11. Ratsional, a'piwayi irratsional transsendent funksiyalardi integrallaw

Tayanish tu'sinik: A'piwayi ratsional bo'lshekler ha'm olardi integrallaw.. Duris ratsional bo'lsheklerdi integrallaw.

12. Nyuton-Leybnis formulasi. O'zgeriwshini almashtiruv ha'm bo'leklep integrallaw usillari

Tayanish tu'sinik: Nyuton – Leybnis formulasi. O'zgeriwshini almashtiruv ha'm bo'leklep integrallaw usillari.

13. Shegaralanbag'an funktsiyanin' menshiksiz integrali

Tayanish tu'sinik: Shegaralanbag'an funktsiyanin' menshiksiz integrali. Shegaralanbag'an funktsiyanin' menshiksiz integralinin' qa'siyetleri.

14. Aniq emes integral ha'm oni tabiwadin' a'piwayi usillari

Tayanish tu'sinik: Baslang'ish funksiya ha'm aniq emes integral. Tiykarg'i integrallar kelesi.

15. Aniq integraldin' aniqlamasi, onin' bar boliv sha'rtleri

Tayanish tu'sinik: Integral qosindi, aniq integral aniqlamasi. Darbu qosindilari ha'm olardin' qa'siyetleri.

16. Ratsional, a'piwayi irratsional transsendent funksiyalardi integrallaw

Tayanish tu'sinik: A'piwayi ratsional bo'lshekler ha'm olardi integrallaw.. Duris ratsional bo'lsheklerdi integrallaw.

17. Nyuton-Leybnis formulasi. O'zgeriwshini almashtirish ha'm bo'lekliq integrallaw usullari
Tayanish tu'sinik: Nyuton – Leybnis formulasi. O'zgeriwshini almashtirish ha'm bo'lekliq integrallaw usullari.
18. Shegaralanbag'an funktsiyanin' menshiksiz integrali
Tayanish tu'sinik: Shegaralanbag'an funktsiyanin' menshiksiz integrali. Shegaralanbag'an funktsiyanin' menshiksiz integralinin' qa'siyetleri.
19. Aniq integraldin' aniqlamasi, onin' bar bolish shartlari
Tayanish tu'sinik: Integral qosindi, aniq integral aniqlamasi. Darbu qosindilari ha'm olardin' qa'siyetleri.
20. Eyler almashtirishlari. Trigonometrik an'latpalardi integrallaw. Universal usuli.
Tayanish tu'sinik: Eyler almashtirishlari. Trigonometrik an'latpalardi integrallaw. Universal usuli.
21. Eyler almashtirishlari. Trigonometrik an'latpalardi integrallaw. Universal usuli.
Tayanish tu'sinik: Eyler almashtirishlari. Trigonometrik an'latpalardi integrallaw. Universal usuli.
22. Nyuton-Leybnis formulasi. O'zgeriwshini almashtirish ha'm bo'lekliq integrallaw usullari
Tayanish tu'sinik: Nyuton – Leybnis formulasi. O'zgeriwshini almashtirish ha'm bo'lekliq integrallaw usullari.
23. Aniq integraldin' aniqlamasi, onin' bar bolish shartlari
Tayanish tu'sinik: Integral qosindi, aniq integral aniqlamasi. Darbu qosindilari ha'm olardin' qa'siyetleri.
24. Eyler almashtirishlari. Trigonometrik an'latpalardi integrallaw. Universal usuli.
Tayanish tu'sinik: Eyler almashtirishlari. Trigonometrik an'latpalardi integrallaw. Universal usuli.
25. Aniq emes integral ha'm onin' tabiiy a'piwayi usullari
Tayanish tu'sinik: Baslang'ish funktsiya ha'm aniq emes integral. Tiykarg'i integrallar kelesi
26. Nyuton-Leybnis formulasi. O'zgeriwshini almashtirish ha'm bo'lekliq integrallaw usullari
Tayanish tu'sinik: Nyuton – Leybnis formulasi. O'zgeriwshini almashtirish ha'm bo'lekliq integrallaw usullari.
27. Shegaralanbag'an funktsiyanin' menshiksiz integrali
Tayanish tu'sinik: Shegaralanbag'an funktsiyanin' menshiksiz integrali. Shegaralanbag'an funktsiyanin' menshiksiz integralinin' qa'siyetleri
28. Aniq integraldin' aniqlamasi, onin' bar bolish shartlari
Tayanish tu'sinik: Integral qosindi, aniq integral aniqlamasi. Darbu qosindilari ha'm olardin' qa'siyetleri.
29. Eyler almashtirishlari. Trigonometrik an'latpalardi integrallaw. Universal usuli.
Tayanish tu'sinik: Eyler almashtirishlari. Trigonometrik an'latpalardi integrallaw. Universal usuli.
30. Aniq integraldin' aniqlamasi, onin' bar bolish shartlari
Tayanish tu'sinik: Integral qosindi, aniq integral aniqlamasi. Darbu qosindilari ha'm olardin' qa'siyetleri.
31. Shegaralanbag'an funktsiyanin' menshiksiz integrali
Tayanish tu'sinik: Shegaralanbag'an funktsiyanin' menshiksiz integrali. Shegaralanbag'an funktsiyanin' menshiksiz integralinin' qa'siyetleri
32. Aniq integraldin' aniqlamasi, onin' bar bolish shartlari
Tayanish tu'sinik: Integral qosindi, aniq integral aniqlamasi. Darbu qosindilari ha'm olardin' qa'siyetleri.
33. Aniq emes integral ha'm onin' tabiiy a'piwayi usullari
Tayanish tu'sinik: Baslang'ish funktsiya ha'm aniq emes integral. Tiykarg'i integrallar kelesi.
34. Nyuton-Leybnis formulasi. O'zgeriwshini almashtirish ha'm bo'lekliq integrallaw usullari

Tayanish tu'sinik: Nyuton – Leybnis formulasi. O'zgeriwshini almastiriw ha'm bo'leklep integrallaw usillari.

35. Aniq emes integral ha'm oni tabiwdin' a'piwayi usillari

Tayanish tu'sinik: Baslang'ish funksiya ha'm aniq emes integral. Tiykarg'i integrallar kelesi.

36. Eyler almastiriwlari. Trigonometrik an'latpalardi integrallaw. Universal usili.

Tayanish tu'sinik: Eyler almastiriwlari. Trigonometrik an'latpalardi integrallaw. Universal usili.

37. Ratsional, a'piwayi irratsional transsendent funksiyalardi integrallaw

Tayanish tu'sinik: A'piwayi ratsional bo'lshekler ha'm olardi integrallaw.. Duris ratsional bo'lsheklerdi integrallaw.

38. Aniq integraldin' aniqlamasi, onin' bar boliw sha'rtleri

Tayanish tu'sinik: Integral qosindi, aniq integral aniqlamasi. Darbu qosindilari ha'm olardin' qa'siyetleri.

39. Aniq emes integral ha'm oni tabiwdin' a'piwayi usillari

Tayanish tu'sinik: Baslang'ish funksiya ha'm aniq emes integral. Tiykarg'i integrallar kelesi

40. Nyuton-Leybnis formulasi. O'zgeriwshini almastiriw ha'm bo'leklep integrallaw usillari

Tayanish tu'sinik: Nyuton – Leybnis formulasi. O'zgeriwshini almastiriw ha'm bo'leklep integrallaw usillari.

41. Aniq integraldin' aniqlamasi, onin' bar boliw sha'rtleri

Tayanish tu'sinik: Integral qosindi, aniq integral aniqlamasi. Darbu qosindilari ha'm olardin' qa'siyetleri.

42. Shegaralanbag'an funktsiyanin' menshiksiz integrali

Tayanish tu'sinik: Shegaralanbag'an funktsiyanin' menshiksiz integrali. Shegaralanbag'an funktsiyanin' menshiksiz integralinin' qa'siyetleri

43. Aniq integraldin' geometrikaliq u'lkenliklerdi esaplawg'a qollaniliwi

Tayanish tu'sinik: Maydandi esaplaw formulalari. Polyar koordinatalar sistemasinda figuranin' maydanin esaplaw. Ken'isliktegi dene ko'lemin esaplaw. Iymek siziq dog'a uzinlig'in esaplaw.

44. Shegaralanbag'an funktsiyanin' menshiksiz integrali

Tayanish tu'sinik: Shegaralanbag'an funktsiyanin' menshiksiz integrali. Shegaralanbag'an funktsiyanin' menshiksiz integralinin' qa'siyetleri

45. Aniq emes integral ha'm oni tabiwdin' a'piwayi usillari

Tayanish tu'sinik: Baslang'ish funksiya ha'm aniq emes integral. Tiykarg'i integrallar kelesi.

46. Eyler almastiriwlari. Trigonometrik an'latpalardi integrallaw. Universal usili.

Tayanish tu'sinik: Eyler almastiriwlari. Trigonometrik an'latpalardi integrallaw. Universal usili.

47. Ratsional, a'piwayi irratsional transsendent funksiyalardi integrallaw

Tayanish tu'sinik: A'piwayi ratsional bo'lshekler ha'm olardi integrallaw.. Duris ratsional bo'lsheklerdi integrallaw.

48. Shegaralanbag'an funktsiyanin' menshiksiz integrali

Tayanish tu'sinik: Shegaralanbag'an funktsiyanin' menshiksiz integrali. Shegaralang'an funktsiyanin' menshiksiz integralinin' qa'siyetleri.

49. Ratsional, a'piwayi irratsional transsendent funksiyalardi integrallaw

Tayanish tu'sinik: A'piwayi ratsional bo'lshekler ha'm olardi integrallaw.. Duris ratsional bo'lsheklerdi integrallaw.

50. Aniq emes integral ha'm oni tabiwdin' a'piwayi usillari

Tayanish tu'sinik: Baslang'ish funksiya ha'm aniq emes integral. Tiykarg'i integrallar kelesi. Aniq emes integralda o'zgeriwshilerdi almastiriw usili

51. Aniq integraldin' aniqlamasi, onin' bar boliw sha'rtleri

Tayanish tu'sinik: Aniq integral tu'sinigine alip kelinetug'in ma'seleler. Integral qosindi, aniq integral aniqlamasi. Darbu qosindilari ha'm olardin' qa'siyetleri.

52. Shegaralanbag'an funksiyanin' menshiksiz integrali

Tayanish tu'sinik: Shegaralanbag'an funksiyanin' menshiksiz integrali. Shegaralanbag'an funksiya menshiksiz integralinin' qa'siyetleri. Shegaralanbag'an funksiyanin' menshiksiz integralin esaplaw

53. Aniq integraldin' geometrikaliq u'lkenliklerdi esaplawg'a qollaniliwi

Tayanish tu'sinik: Maydandi esaplaw formulalalari. Polyar koordinatalar sistemasinda figuranin' maydanin esaplaw. Ken'isliktegi dene ko'lemin esaplaw. Iymek siziq dog'a uzinlig'in esaplaw.

54. Ratsional, a'piwayi irratsional ha'm transsendent funksiyalardi integrallaw

Tayanish tu'sinik: A'piwayi ratsional bo'lshekler ha'm olardi integrallaw. Duris ratsional bo'lsheklerdi integrallaw. Bo'lshek ratsional funksiyalardi integrallaw. A'piwayi irratsional an'latpalardi integrallaw

55. Eyler almastiriwlari. Trigonometrik an'latpalardi integrallaw. Universal usil.

Tayanish tu'sinik: Eyler almastiriwlari. Trigonometrik an'latpalardi integrallaw. Universal usil.

56. Ratsional, a'piwayi irratsional ha'm transsendent funksiyalardi integrallaw

Tayanish tu'sinik: A'piwayi ratsional bo'lshekler ha'm olardi integrallaw. Tuwri ratsional bo'lsheklerdi integrallaw. Bo'lshek ratsional funksiyalardi integrallaw. A'piwayi irratsional an'latpalardi integrallaw

57. Nyuton-Leybnis formulasi. O'zgeriwshilerdi almastiriw ha'm bo'leklep integrallaw usillari

Tayanish tu'sinik: Nyuton – Leybnis formulasi. O'zgeriwshilerdi almastiriw ha'm bo'leklep integrallaw usillari.

58. Aniq emes integral ha'm oni tabiwidin' a'piwayi usillari

Tayanish tu'sinik: Baslang'ish funksiya ha'm aniq emes integral. Tiykarg'i integrallar kestesini. Aniq emes integralda o'zgeriwshini almastiriw usili

59. Ratsional, a'piwayi irratsional ha'm transsendent funksiyalardi integrallaw

Tayanish tu'sinik: A'piwayi ratsional bo'lshekler ha'm olardi integrallaw. Tuwri ratsional bo'lsheklerdi integrallaw. Bo'lshek ratsional funksiyalardi integrallaw. A'piwayi irratsional an'latpalardi integrallaw

60. Eyler almastiriwlari. Trigonometrik an'latpalardi integrallaw. Universal usul.

Tayanish tu'sinik: Eyler almastiriwlari. Trigonometrik an'latpalardi integrallaw. Universal usul.

1. $x = y^2$ ha'm $x - y = 2$ siziqqlar menen shegaralang'an dene maydanin integrallaw ja'rdeminde esaplan'.

2. Aniq emes intergraldi esaplan'. $\int \frac{dx}{1 + \sqrt{x}}$

3. Aniq intergraldi esaplan'. $\int_0^2 |1 - x| dx$

4. $y = x$ ha'm $y = 2 - x^2$ siziqqlar menen shegaralang'an dene maydanin integrallaw ja'rdeminde esaplan'.

5. Aniq emes intergraldi esaplan'. $\int \sqrt{1 - x^2} dx$

6. Aniq intergraldi esaplan'. $\int_0^1 \frac{x^2}{1 + x^6} dx$

7. $y = x^4 - 4x^2 + 4$ hám $y = x^2$ siziqqlar menen shegaralang'an dene maydanin integrallaw ja'rdeminde esaplan'.

8. Aniq emes intergraldi esaplan'. $\int \frac{dx}{\sqrt{x(1+x)}}$

9. Aniq intergraldi esaplan' $\int_0^1 x^{15} \sqrt{1+3x^8} dx$

10. $y = 6x - x^2 - 7$, $y = x - 3$ siziqqlar menen shegaralang'an dene maydanin integrallaw ja'rdeminde esaplan'.

11. Aniq emes intergraldi esaplan'. $\int \frac{dx}{\sin x}$

12. Aniq intergraldi esaplan' $\int_1^2 \frac{e^{\frac{1}{x^2}}}{x^3} dx$

13. $y = \sin x$, $y = 0$, $0 \leq x \leq \pi$ siziqqlar menen shegaralang'an dene maydanin integrallaw ja'rdeminde esaplan'.

14. Aniq emes intergraldi esaplan'. $\int \frac{xdx}{(x+1)(x^2+1)}$

15. Aniq intergraldi esaplan' $\int_0^1 \frac{dx}{e^x + e^{-x}}$

16. siziqqlar menen shegaralang'an dene maydanin integrallaw ja'rdeminde esaplan'.

17. Aniq emes intergraldi esaplan'. $\int \frac{xdx}{(x^2-1)^{\frac{3}{2}}}$

18. Aniq intergraldi esaplan' $\int_{-2}^{-1} \frac{x+1}{x^2(x-1)} dx$

19. $y = x^4 - 4x^2 + 4$ hám $y = x^2$ siziqqlar menen shegaralang'an dene maydanin integrallaw ja'rdeminde esaplan'

20. Aniq emes intergraldi esaplan'. $\int x\sqrt{1-x^2} dx$

21. Aniq intergraldi esaplan' $\int_1^3 \arctg \sqrt{x} dx$

22. Menshiksiz intergraldi esaplan': $\int \frac{x^3}{\sqrt[3]{2}(x^4+4)^2} dx$

23. Aniq emes intergraldi esaplan'. $\int \frac{\arcsin x}{x^2} dx$

24. Aniq intergraldi esaplan' $\int_0^{\frac{\pi}{2}} e^{2x} \cos x dx$

25. Menshiksiz intergraldi esaplan': $\int_2^{+\infty} \frac{\ln x}{x^3} dx$

26. Aniq emes integraldi esaplan'. $\int \frac{xdx}{(x^2-1)^{\frac{3}{2}}}$

27. Aniq integraldi esaplan' $\int_{\frac{\pi}{4}}^{\frac{\pi}{3}} \frac{x}{\sin^2 x} dx$

28. Menshiksiz integraldi esaplan': $\int_0^{+\infty} \frac{x}{(x^2+1)^3} dx$

29. Aniq emes integraldi esaplan'. $\int \arctg x dx$

30. Aniq integraldi esaplan' $\int_0^e \sin(\ln x) dx$

31. Menshiksiz integraldi esaplan': $\int_1^{+\infty} \frac{1}{(1+x)\sqrt{x}} dx$

32. Aniq emes integraldi esaplan'. $\int \left(\frac{x}{x^2-3x+2} \right)^2 dx$

33. Aniq integraldi esaplan' $\int_0^1 \sqrt{4-x^2} dx$

34. Menshiksiz integraldi esaplan': $\int_1^{+\infty} \frac{\arctg x}{x^2} dx$

35. Aniq emes integraldi esaplan'. $\int \left(\frac{x}{x^2-3x+2} \right)^2 dx$

36. Aniq integraldi esaplan' $\int_0^2 e^{-x^2} x dx$

37. $x = y^2$ va $x - y = 2$ siziqklar menen shegaralang'an dene maydanin integrallaw ja'rdeminde esaplan'.

38. Aniq emes integraldi esaplan'. $\int x\sqrt{1-x^2} dx$

39. Aniq integraldi esaplan' $\int_0^4 \frac{dx}{1+\sqrt{x}}$

40. $y = x$ ha'm $y = 2 - x^2$ siziqklar menen shegaralang'an dene maydanin integrallaw ja'rdeminde esaplan'.

41. Aniq emes integraldi esaplan'. $\int x^2 \sin x dx$

42. Aniq integraldi esaplan' $\int_{\frac{\pi}{3}}^{\frac{\pi}{2}} \frac{dx}{3+\cos x}$

43. $y = x^2 + 1$, $x + y = 3$ siziqklar menen shegaralang'an dene maydanin integrallaw ja'rdeminde esaplan'.

44. Aniq emes integraldi esaplan'. $\int \frac{dx}{\sin^2 x + 2 \cos^2 x}$

45. Aniq integraldi esaplan' $\int_2^3 \frac{dx}{x^2 - 2x - 8}$

46. Menshiksiz integraldi esaplan': $\int_0^{+\infty} \frac{x}{(x^2 + 1)^3} dx$

47. Aniq emes integraldi esaplan'. $\int \frac{\sin x \cdot \cos^3 x}{1 + \cos^2 x} dx$

48. Aniq integraldi esaplan' $\int_1^5 \frac{x^2 - 6x + 10}{x - 3} dx$

49. $y = x^2 + 1$, $x + y = 3$ siziqqlar menen shegaralang'an dene maydanin integrallaw ja'rdeminde esaplan'.

50. Aniq emes integraldi esaplan'. $\int \frac{xdx}{x^2 - 3x + 2}$

51. Aniq integraldi esaplan' $\int_0^{100\pi} \sqrt{1 - \cos 2x} dx$

52. $x = y^2$ ha'm $x - y = 2$ siziqqlar menen shegaralang'an dene maydanin integrallaw ja'rdeminde esaplan'.

53. Aniq emes integraldi esaplan'. $\int \frac{dx}{e^{x/2} + e^x}$

54. Aniq integraldi esaplan' $\int_0^2 |1 - x| dx$

55. $y = x^4 - 4x^2 + 4$ ha'm $y = x^2$ siziqqlar menen shegaralang'an dene maydanin integrallaw ja'rdeminde esaplan'.

56. Aniq emes integraldi esaplan'. $\int \frac{dx}{1 + \sqrt{x}}$

57. Aniq integraldi esaplan' $\int_0^1 \frac{x^2}{1 + x^6} dx$

58. Menshiksiz integraldi esaplan': $\int_0^{+\infty} \frac{x}{(x^2 + 1)^3} dx$

59. Aniq emes integraldi esaplan'. $\int \frac{dx}{\sin^2 x + 2 \cos^2 x}$

60. Aniq integraldi esaplan' $\int_0^1 (e^{-x} + 1)^2 dx$

61. $y = x$ ha'm $y = 2 - x^2$ siziqqlar menen shegaralang'an dene maydanin integrallaw ja'rdeminde esaplan'

62. Aniq emes integraldi esaplan'. $\int \frac{dx}{(1+x)\sqrt{x}}$

63. Aniq integraldi esaplan' $\int_0^1 x^{15} \sqrt{1 + 3x^8} dx$

64. $y = x^2 + 1$, $x + y = 3$ siziqalar menen shegaralang'an dene maydanin integrallaw ja'rdeminde esaplan'

65. Aniq emes integraldi esaplan'. $\int \frac{x dx}{x^2 - 3x + 2}$

66. Aniq integraldi esaplan' $\int_1^2 \frac{e^{x^2}}{x^3} dx$

67. $y = 6x - x^2 - 7$, $y = x - 3$ siziqalar menen shegaralang'an dene maydanin integrallaw ja'rdeminde esaplan'

68. Aniq emes integraldi esaplan'. $\int \frac{dx}{\sqrt{x(1+x)}}$

69. Aniq integraldi esaplan' $\int_0^1 \frac{dx}{e^x + e^{-x}}$

70. $y = x^4 - 4x^2 + 4$ hám $y = x^2$ siziqalar menen shegaralang'an dene maydanin integrallaw ja'rdeminde esaplan'

71. Aniq emes integraldi esaplan'. $\int \frac{dx}{\sin x}$

72. Aniq integraldi esaplan' $\int_1^3 \arctg \sqrt{x} dx$

73. $y = 6x - x^2 - 7$, $y = x - 3$ siziqalar menen shegaralang'an dene maydanin integrallaw ja'rdeminde esaplan'

74. Aniq emes integraldi esaplan'. $\int \frac{x^3}{(x-1)^{100}} dx$

75. Aniq integraldi esaplan' $\int_1^5 \frac{x^2 - 6x + 10}{x - 3} dx$

76. $y = x$ ha'm $y = 2 - x^2$ siziqalar menen shegaralang'an dene maydanin integrallaw ja'rdeminde esaplan'

77. Aniq emes integraldi esaplan'. $\int \ln(x + \sqrt{1+x^2}) dx$

78. Aniq integraldi esaplan' $\int_1^5 \frac{x^2 - 6x + 10}{x - 3} dx$

79. $y = x^2 + 1$, $x + y = 3$ siziqalar menen shegaralang'an dene maydanin integrallaw ja'rdeminde esaplan'

80. Aniq emes integraldi esaplan'. $\int \frac{x dx}{(x+1)(x^2+1)}$

81. Aniq integraldi esaplan' $\int_0^2 e^{x^2} x dx$

82. $y = x^4 - 4x^2 + 4$ hám $y = x^2$ siziqalar menen shegaralang'an dene maydanin integrallaw ja'rdeminde esaplan'

83. Aniq emes intergraldi esaplan'. $\int \frac{xdx}{x^2 - 3x + 2}$

84. Aniq intergraldi esaplan' $\int_{-2}^{-1} \frac{x+1}{x^2(x-1)} dx$

85. $y = 6x - x^2 - 7$, $y = x - 3$ siziqklar menen shegaralang'an dene maydanin integrallaw ja'rdeminde esaplan'

86. Aniq emes intergraldi esaplan'. $\int \frac{x^3}{(x-1)^{100}} dx$

87. Aniq intergraldi esaplan' $\int_0^4 \frac{dx}{1 + \sqrt{x}}$

88. Menshiksiz intergraldi esaplan': $\int_1^{+\infty} \frac{1}{(1+x)\sqrt{x}} dx$

89. Aniq emes intergraldi esaplan'. $\int \frac{dx}{\sin x}$

90. Aniq intergraldi esaplan' $\int_2^3 \frac{dx}{x^2 - 2x - 8}$