計算のまとめ(中３)

(２６～５０、９１～１００は因数分解せよ)

1. $(x+1)(x+2)$
2. $(x+2)^2$
3. $(2x+1)^2$
4. $(2x+1)(2x+4)$
5. $(x+2y)(x+4y)$
6. $(3a-2)(3a+4)$
7. $(b+10)(b-10)$
8. $(-4x+3y)^2$
9. $(2a-3b)(2a+b)$
10. $(3x+y)(3x+5y)$
11. $(5a-8)(5a+8)$
12. $\left(\frac{5}{3}x+3y\right)\left(\frac{5}{3}x-3y\right)$
13. $(5m-2)^2$
14. $(-4a-2b)^2$
15. $(a-6)(a-7)$
16. $(x-7y)(x+4y)$
17. $(5x-3y)(5x+7y)$
18. $(xy+4)(xy+9)$
19. $(m-8)^2$
20. $(6m+2)^2$
21. $(x+y)(x+6y)$
22. $(x-3)^2$
23. $(3x+3y)^2$
24. $(4x+2)(4x-4)$
25. $(x-5y)(x+4y)$
26. x^2-7x
27. x^2-16
28. $x^2+12x+36$
29. $x^2+9x+20$
30. $8x^2-16x$
31. x^2-81
32. $x^2+14x+49$
33. $x^2+12x+32$
34. $4y^2-x^2$
35. $x^2+20x+36$
36. $5px-10py$
37. $x^2-11x+24$
38. $x^2-10x+25$
39. $9xy-15yz$
40. $2ax-4bx-8x$
41. $-x^2+1$
42. $x^2-10x+21$
43. $x^2-14x+48$
44. $x^2+x+\frac{1}{4}$
45. $a^2+7a-18$
46. $9a^2-25$
47. $a^2+5a-66$
48. x^2y-xy^2+xy
49. $x^2+13x-48$
50. $100x^2-81$
51. $\sqrt{2}\times\sqrt{6}$
52. $\sqrt{6}\times\sqrt{3}$
53. $\sqrt{8}\times\sqrt{12}$
54. $\sqrt{20}\times\sqrt{18}$
55. $\sqrt{18}\div\sqrt{2}$
56. $\sqrt{24}\div\sqrt{6}$
57. $\sqrt{18}\div\sqrt{8}$
58. $\sqrt{12}\div\sqrt{27}$
59. $\sqrt{3}\times\sqrt{5}\times\sqrt{6}$
60. $\sqrt{2}\times\sqrt{7}\times\sqrt{10}$
61. $2\sqrt{2}\times\sqrt{3}\times\sqrt{12}$
62. $\sqrt{8}\times2\sqrt{6}\times\sqrt{18}$
63. $\sqrt{18}\times\sqrt{\frac{5}{6}}$
64. $\sqrt{\frac{3}{8}}\div\sqrt{27}$
65. $\sqrt{2}+3\sqrt{2}$
66. $\sqrt{5}+2\sqrt{5}$
67. $2\sqrt{3}-\sqrt{3}$
68. $4\sqrt{6}-\sqrt{6}$
69. $\sqrt{18}+\sqrt{32}$
70. $\sqrt{63}+\sqrt{28}$
71. $2\sqrt{2}+\frac{2}{\sqrt{2}}$
72. $4\sqrt{5}+\frac{10}{\sqrt{5}}$
73. $8\sqrt{3}-\sqrt{27}+\frac{6}{\sqrt{3}}$
74. $\sqrt{18}+\sqrt{32}-\frac{12}{\sqrt{2}}$
75. $\sqrt{2}\times\sqrt{3}+2\sqrt{6}$
76. $\sqrt{6}\times\sqrt{2}+3\sqrt{3}$
77. $\sqrt{6}\div\sqrt{2}+4\sqrt{3}$
78. $\sqrt{10}\div\sqrt{5}+\sqrt{8}$
79. $\sqrt{2}\times\sqrt{6}+\frac{3}{\sqrt{3}}$
80. $2\sqrt{3}\times\sqrt{15}-\frac{10}{\sqrt{5}}$
81. $(3a+6)(3a-1)$
82. $\left(b+\frac{11}{12}\right)\left(b-\frac{11}{12}\right)$
83. $(-2x-3y)^2$
84. $(7a-3b)(7a+b)$
85. $(2x-y)(2x+5y)$
86. $\left(\frac{13}{5}a-8\right)\left(\frac{13}{5}a+8\right)$
87. $(3y+x)(x-3y)$
88. $(3m-4n)^2$
89. $(-2a-b)^2$
90. $(a+6b)(a-7b)$
91. $49x^2+14x+1$
92. $x^2-3x-10$
93. $x^2+9xy+20y^2$
94. $\frac{4}{9}x^2-\frac{9}{25}y^2$
95. mx^3+2mx^2-6mx
96. $100x^2-20xy+y^2$
97. $a^2-10a-24$
98. $x^2-0.36$
99. $x^2-xy-20y^2$
100. $4a^2+36a+81$