

## LOGARITMIKUS EGYENLETEK MEGOLDÁSSAL

$$1. \log_7(x-3)=1$$

$$2. \log_5(x+4)=1$$

$$3. \lg(x-2)=1$$

$$4. \log_2(x-5)=2$$

$$5. \log_8(x+4)=2$$

$$6. \lg(x-20)=2$$

$$7. \log_3(x-3)=3$$

$$8. \log_2(x+3)=3$$

$$9. \lg(x+500)=3$$

$$10. \log_2(3x-4)=1$$

$$11. \log_5(4x-7)=1$$

$$12. \lg(7x+3)=1$$

$$13. \log_6(3x+6)=2$$

$$14. \log_4(10x-4)=2$$

$$15. \lg(10x+20)=2$$

$$16. \log_2(3x-1)=3$$

$$17. \log_3(5x+7)=3$$

$$18. \lg(4x-200)=3$$

$$19. \log_2\left(x-\frac{1}{2}\right)=-1$$

$$20. \log_3\left(x-\frac{2}{3}\right)=-1$$

$$21. \log_5\left(x-\frac{9}{5}\right)=-1$$

$$22. \log_4\left(x-\frac{31}{16}\right)=-2$$

$$23. \log_3\left(x-\frac{8}{9}\right)=-2$$

$$24. \log_2\left(x-\frac{11}{4}\right)=-2$$

$$25. \log_4(x-3)=\frac{1}{2}$$

$$26. \log_{36}(x+5)=\frac{1}{2}$$

$$27. \log_{25}(x-2)=\frac{1}{2}$$

$$28. \log_8(x+1)=\frac{1}{3}$$

$$29. \log_{27}(x-7)=\frac{1}{3}$$

$$30. \log_{1000}(x+8)=\frac{1}{3}$$

$$31. \log_4(x+5)=\log_4 3 + \log_4 5$$

$$40. \log_4(3x-6)=\log_4 6 + \log_4 5$$

$$32. \log_2(x+1)=\log_2 7 + \log_2 3$$

$$41. \log_2(2x+8)=\log_2 12 + \log_2 4$$

$$33. \lg(x-2)=\lg 4 + \lg 2$$

$$42. \lg(6x-4)=\lg 2 + \lg 10$$

$$34. \log_3(x+1)=\log_3 24 - \log_3 6$$

$$43. \log_5(5x-8)=\log_5 42 - \log_5 6$$

$$35. \log_5(x-5)=\log_5 40 - \log_5 8$$

$$44. \log_6(2x-6)=\log_6 32 - \log_6 8$$

$$36. \lg(x+3)=\lg 30 - \lg 5$$

$$45. \lg(5x-12)=\lg 36 - \lg 12$$

$$37. \log_4(x+2)-1=\log_4 3$$

$$46. \log_5(7x+5)-2=\log_5 3$$

$$38. \log_3(x-5)=\log_3 72 - 2$$

$$47. \log_2(4x-3)=\log_2 72 - 3$$

$$39. \log_5(x-3)+2=\log_5 100$$

$$48. \lg(6x+2)+1=\lg 80$$

$$49. 2 + \log_3 x = \log_3 4 + \log_3(x+5)$$

$$52. \lg(3x-13) - \lg(x-3) = 1 - \lg 2$$

$$50. \lg 5 + \lg x = 1 + \lg(3x-10)$$

$$53. \log_6(7x-4) - \log_6(2x+1) = 2 - \log_6 12$$

$$51. \log_4 3 + \log_4 x = \log_4(90+3x) - 2$$

$$54. \log_8(5x+7) - \log_8(3x+2) = \frac{1}{3}$$

$$55. \lg(7x+6) = \lg(4x+2) + \lg(3x-4)$$

$$56. \lg(x+1) + \lg(x-1) = \lg 8 + \lg(x-2)$$

$$57. \lg(x+5) + \lg(x-3) = \lg(2x+1)$$

$$58. \lg(2x+1) + \lg x = 1 + 2\lg(x-1)$$

$$59. \lg(3x-4) + \lg(x+2) = 2 - 2\lg 2$$

$$60. 1 + 2\lg(x-2) = \lg(11-2x) + \lg(2x-4)$$

## MEGOLDÁSOK

1. 10	2. 1	3. 12	4. 9	5. 60	6. 120	7. 30	8. 5	9. 500	10. 2
11. 3	12. 1	13. 10	14. 2	15. 8	16. 3	17. 4	18. 300	19. 1	20. 1
21. 2	22. 2	23. 1	24. 3	25. 5	26. 1	27. 7	28. 1	29. 10	30. 2
31. 10	32. 20	33. 10	34. 3	35. 10	36. 3	37. 10	38. 13	39. 7	40. 12
41. 20	42. 4	43. 3	44. 5	45. 3	46. 10	47. 3	48. 1	49. 4	50. 4
51. 2	52. 1	53. 7	54. 3	55. 2	56. 3 és 5	57. 4	58. 2	59. 3	60. 3

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