

$$1. \log_{\frac{1}{35}} 5 = h$$

$$\log_r \frac{1}{1000000} = -6$$

$$\log_{\frac{1}{36}} j = \frac{1}{2}$$

$$\log_u \frac{1}{16} = -\frac{1}{2}$$

$$2. \log_{1024} n = 1$$

$$\log_3 m = 1$$

$$\log_{\frac{1}{25}} \frac{1}{5} = x$$

$$\log_{\frac{1}{256}} 1 = g$$

$$3. \log_{64} g = -\frac{1}{2}$$

$$\log_{512} t = 1$$

$$\log_4 \frac{1}{16} = h$$

$$\log_{64} w = \frac{1}{2}$$

$$4. \log_u \frac{1}{2} = -\frac{1}{4}$$

$$\log_{\frac{1}{125}} 1 = b$$

$$\log_2 \frac{1}{8} = n$$

$$\log_u \frac{1}{100} = 2$$

$$5. \log_w 512 = 1$$

$$\ln e^3 = j$$

$$\log_{\frac{1}{36}} h = -\frac{1}{2}$$

$$\log_5 \frac{1}{125} = s$$

$$6. \log_{\frac{1}{9}} \frac{1}{81} = a$$

$$\log_g \frac{1}{2} = \frac{1}{9}$$

$$\log_2 d = -5$$

$$\log_{\frac{1}{100}} 100 = f$$

$$7. \log_d 4 = -2$$

$$\log_{1024} d = 0$$

$$\log_{\frac{1}{6}} 1 = q$$

$$\log_5 \frac{1}{25} = r$$

$$8. \log_{1024} t = 0$$

$$\log_{\frac{1}{256}} 256 = v$$

$$\log_{\frac{1}{e}} \frac{1}{e^4} = z$$

$$\log \frac{1}{10000} = g$$

$$9. \log_{16} r = \frac{1}{4}$$

$$\log_{16} \frac{1}{2} = h$$

$$\log_{\frac{1}{64}} w = \frac{1}{2}$$

$$\log_f \frac{1}{6} = \frac{1}{2}$$

$$10. \log_{\frac{1}{2}} l = -4$$

$$\log_{\frac{1}{6}} 6 = m$$

$$\log_2 l = -8$$

$$\log_q 25 = 2$$

$$11. \log w = 0$$

$$\log_{64} f = \frac{1}{2}$$

$$\log_9 s = 0$$

$$\log_8 5 = -\frac{1}{2}$$

$$12. \log_2 t = 4$$

$$\log_{\frac{1}{64}} p = -\frac{1}{2}$$

$$\log_{256} z = 1$$

$$\log_{36} q = -1$$

$$13. \log_t e^2 = 2$$

$$\log_{\frac{1}{36}} v = -1$$

$$\log_{\frac{1}{64}} 1 = y$$

$$\log_t \frac{1}{3} = -\frac{1}{2}$$

$$14. \log_d \frac{1}{100} = -2$$

$$\log_{64} f = -\frac{1}{3}$$

$$\log_2 m = -1$$

$$\log_{\frac{1}{16}} 1000000 = m$$

$$15. \log_2 \frac{1}{64} = u$$

$$\log_{\frac{1}{9}} \frac{1}{3} = c$$

$$\log_q \frac{1}{6} = 1$$

$$\log_h \frac{1}{49} = -1$$

$$16. \log_{81} l = -1$$

$$\log_{36} 1 = r$$

$$\log_9 x = -1$$

$$\log_2 h = 3$$

$$17. \log_h \frac{1}{100000} = -5$$

$$\log_m \frac{1}{5} = -1$$

$$\log_r 6 = 1$$

$$\log_v 100000 = -5$$

$$18. \log_{\frac{1}{3}} 1 = a$$

$$\log_{\frac{1}{100}} \frac{1}{10} = m$$

$$\log_{\frac{1}{6}} 1 = c$$

$$\log_{\frac{1}{8}} 16 = -1$$

$$19. \log_2 4 = t$$

$$\log_{64} f = \frac{1}{6}$$

$$\ln e^2 = a$$

$$\log_{\frac{1}{2}} 8 = y$$

$$20. \log_x 5 = \frac{1}{2}$$

$$\log_{\frac{1}{49}} \frac{1}{7} = n$$

$$\log_z \frac{1}{4} = -2$$

$$\log_{\frac{1}{1024}} 1 = u$$

$$21. \log_{\frac{1}{e}} e^4 = x$$

$$\log_{11} 256 = -8$$

$$\log_2 n = 5$$

$$\log_{\frac{1}{2}} \frac{1}{8} = h$$

$$22. \log v = -2$$

$$\log_{256} t = 1$$

$$\log_8 \frac{1}{8} = u$$

$$\log_{\frac{1}{4}} \frac{1}{16} = q$$

$$23. \log_{32} z = -1$$

$$\log_{256} 256 = g$$

$$\log_c \frac{1}{e^2} = 2$$

$$\log_{\frac{1}{1024}} \frac{1}{2} = a$$

$$24. \log_{64} p = 1$$

$$\log_{\frac{1}{32}} h = 0$$

$$\ln \frac{1}{e^3} = a$$

$$\log_f 3 = -\frac{1}{4}$$

$$25. \log_4 64 = q$$

$$\log_4 \frac{1}{2} = u$$

$$\log_{\frac{1}{7}} 7 = x$$

$$\log_{\frac{1}{100}} \frac{1}{10} = f$$

$$26. \log_z \frac{1}{25} = 2$$

$$\log_f 128 = 1$$

$$\log_{\frac{1}{5}} q = -3$$

$$\log_u \frac{1}{e^4} = -4$$

$$27. \log_{\frac{1}{64}} \frac{1}{64} = j$$

$$\log_m \frac{1}{e} = -1$$

$$\log w = -3$$

$$\log_p \frac{1}{9} = -2$$

$$28. \log_n 2 = \frac{1}{7}$$

$$\log_{\frac{1}{2}} 1 = z$$

$$\log_p e^2 = 2$$

$$\log_6 r = 0$$

$$29. \log_{\frac{1}{100}} g = 0$$

$$\log_{\frac{1}{36}} 36 = r$$

$$\log_{128} t = -\frac{1}{7}$$

$$\log_{\frac{1}{5}} k = -3$$

$$30. \log_z \frac{1}{5} = -1$$

$$\log_4 4 = h$$

$$\log_{\frac{1}{2}} \frac{1}{512} = r$$

$$\log_{\frac{1}{64}} \frac{1}{2} = v$$

$$31. \log_j 9 = -\frac{1}{2}$$

$$\log_{81} g = 0$$

$$\log_{36} \frac{1}{6} = b$$

$$\log_{\frac{1}{10}} \frac{1}{100} = k$$

$$32. \log_{\frac{1}{4}} l = -3$$

$$\log_{\frac{1}{e}} a = 3$$

$$\log_m \frac{1}{16} = -2$$

$$\log_{\frac{1}{64}} 4 = s$$

$$33. \log_r 100 = -2$$

$$\log_7 t = 1$$

$$\log_{\frac{1}{256}} 2 = u$$

$$\log_{\frac{1}{4}} \frac{1}{36} = a$$

$$34. \log_{\frac{1}{25}} x = \frac{1}{2}$$

$$\log_{100} \frac{1}{10} = l$$

$$\log_{\frac{1}{32}} u = 0$$

$$\log_q 27 = -3$$

$$35. \log_{256} 256 = m$$

$$\log_{128} 1 = m$$

$$\log_5 x = 0$$

$$\log \frac{1}{100} = x$$

$$36. \log_{512} w = 0$$

$$\log_{\frac{1}{3}} g = 3$$

$$\log_{\frac{1}{e}} \frac{1}{e^3} = v$$

$$\log_{\frac{1}{10}} \frac{1}{1000000} = l$$

$$37. \log_y \frac{1}{128} = 1$$

$$\log_{\frac{1}{10}} \frac{1}{100000} = k$$

$$\log_3 h = 1$$

$$\log_{\frac{1}{10}} p = 1$$

$$38. \log_j 32 = -1$$

$$\log_2 v = -5$$

$$\log_{\frac{1}{4}} 2 = l$$

$$\log_8 \frac{1}{9} = \frac{1}{2}$$

$$39. \log_{36} \frac{1}{36} = n$$

$$\log_{100} \frac{1}{100} = x$$

$$\log_{\frac{1}{36}} g = -\frac{1}{2}$$

$$\log_5 u = 2$$

$$40. \log_{1024} w = 1$$

$$\log_{16} \frac{1}{16} = k$$

$$\log_{16} 2 = k$$

$$\log_{\frac{1}{1000}} \frac{1}{10} = z$$

41. $\log_2 u = 4$

$$\log_t 32 = -5$$

$$\log_{\frac{1}{7}} s = 2$$

$$\log_{\frac{1}{1000}} \frac{1}{1000} = b$$

42. $\log_t \frac{1}{16} = 2$

$$\log_9 s = -1$$

$$\log_{256} j = -\frac{1}{4}$$

$$\log_2 256 = g$$

43. $\log_{81} j = -\frac{1}{2}$

$$\log_{81} 81 = n$$

$$\log_s \frac{1}{100000} = 5$$

$$\log 100 = n$$

44. $\log_q 128 = 1$

$$\log_{81} b = 0$$

$$\ln v = 1$$

$$\log_r 3 = \frac{1}{4}$$

45. $\log_5 t = -1$

$$\log_s \frac{1}{36} = -1$$

$$\log_{\frac{1}{4}} b = 3$$

$$\log_{256} \frac{1}{16} = p$$

46. $\log_f 128 = -7$

$$\log_{100} f = -1$$

$$\log_{100} 100 = p$$

$$\log_x 10 = -\frac{1}{3}$$

47. $\log_{\frac{1}{3}} 9 = j$

$$\log_{\frac{1}{4}} q = -3$$

$$\log_c 49 = 2$$

$$\log_{\frac{1}{81}} 3 = t$$

48. $\log_{16} 4 = f$

$$\log_{\frac{1}{8}} 64 = z$$

$$\log_{\frac{1}{5}} 1 = d$$

$$\log_p \frac{1}{8} = -\frac{1}{2}$$

49. $\log_{36} 6 = l$

$$\log_{64} z = \frac{1}{2}$$

$$\log_{\frac{1}{10}} 1 = p$$

$$\log_9 \frac{1}{9} = n$$

50. $\log_{\frac{1}{256}} y = 0$

$$\log_{\frac{1}{8}} l = -1$$

$$\log_{512} q = -1$$

$$\log_q 1000 = 3$$

51. $\log_{\frac{1}{e}} 1 = k$

$$\log_{\frac{1}{1024}} 1 = q$$

$$\log_{\frac{1}{49}} \frac{1}{7} = q$$

$$\log_{\frac{1}{5}} 1 = k$$

52. $\log_{\frac{1}{64}} 2 = b$

$$\log_{512} t = -1$$

$$\log_{\frac{1}{16}} 1 = t$$

$$\log_b 100 = -1$$

53. $\log_{\frac{1}{3}} 3 = m$

$$\log_n 16 = \frac{1}{2}$$

$$\log_{\frac{1}{25}} k = 1$$

$$\log_j 81 = 2$$

54. $\log_q \frac{1}{100} = 2$

$$\log_t 256 = 1$$

$$\log_8 8 = z$$

$$\log_{\frac{1}{256}} \frac{1}{2} = k$$

55. $\log_{\frac{1}{3}} r = 1$

$$\ln d = 1$$

$$\log_6 1 = m$$

$$\log_{\frac{1}{2}} l = -7$$

56. $\log_d \frac{1}{25} = 1$

$$\log_m \frac{1}{2} = \frac{1}{8}$$

$$\log_{\frac{1}{36}} 1 = u$$

$$\log_{\frac{1}{18}} \frac{1}{2} = l$$

57. $\log_b 81 = 4$

$$\log_{\frac{1}{8}} \frac{1}{2} = x$$

$$\log_z 8 = 1$$

$$\log_w 2 = -\frac{1}{2}$$

58. $\log_{\frac{1}{1000}} b = -\frac{1}{3}$

$$\log_{1024} \frac{1}{1024} = t$$

$$\log_5 q = 0$$

$$\log_{\frac{1}{3}} 3 = d$$

59. $\log_{1024} 2 = w$

$$\log_9 p = -1$$

$$\log_{256} \frac{1}{16} = r$$

$$\log_{\frac{1}{4}} 1 = f$$

60. $\log_n 25 = 2$

$$\log_4 64 = p$$

$$\log_{\frac{1}{8}} v = -\frac{1}{3}$$

$$\log_c \frac{1}{81} = 4$$

$$61. \log_t 9 = -2$$

$$\log_{\frac{1}{100}} \frac{1}{10} = f$$

$$\log_{\frac{1}{16}} 1 = r$$

$$\log_{\frac{1}{3}} 3 = k$$

$$62. \log_9 d = -1$$

$$\log_a \frac{1}{36} = 2$$

$$\log_{1000} k = 1$$

$$\log_{64} \frac{1}{8} = n$$

$$63. \log_g 10 = \frac{1}{3}$$

$$\log_{\frac{1}{2}} q = -10$$

$$\log_3 27 = t$$

$$\log_r 7 = -1$$

$$64. \log_{\frac{1}{5}} 81 = p$$

$$\log_q \frac{1}{2} = \frac{1}{3}$$

$$\log_{\frac{1}{e}} 1 = f$$

$$\log_{\frac{1}{5}} 5 = y$$

$$65. \log_4 g = 0$$

$$\log_q 2 = -\frac{1}{9}$$

$$\log_{\frac{1}{10}} \frac{1}{100} = n$$

$$\log_{\frac{1}{49}} \frac{1}{7} = n$$

$$66. \log_{\frac{1}{8}} \frac{1}{64} = s$$

$$\log_{256} v = \frac{1}{2}$$

$$\ln 1 = g$$

$$\log_n \frac{1}{1000} = -3$$

$$67. \log_{64} w = -1$$

$$\log_2 \frac{1}{16} = j$$

$$\log_{\frac{1}{4}} g = 2$$

$$\log_{64} s = \frac{1}{2}$$

$$68. \log_c 4 = -\frac{1}{4}$$

$$\log_j 3 = \frac{1}{2}$$

$$\log_5 b = 1$$

$$\log_k 2 = \frac{1}{7}$$

$$69. \log_4 q = -\frac{1}{2}$$

$$\log_{\frac{1}{6}} \frac{1}{36} = r$$

$$\log_w 81 = 4$$

$$\log_8 \frac{1}{8} = g$$

$$70. \log_{25} p = -\frac{1}{2}$$

$$\log_{\frac{1}{4}} \frac{1}{4} = m$$

$$\log_{\frac{1}{6}} \frac{1}{36} = l$$

$$\log_{256} 256 = u$$

$$71. \log_f \frac{1}{4} = -\frac{1}{2}$$

$$\log_{\frac{1}{2}} w = -8$$

$$\log a = -2$$

$$\log_r \frac{1}{256} = 8$$

$$72. \log_u \frac{1}{2} = -\frac{1}{6}$$

$$\ln \frac{1}{e^2} = c$$

$$\log_{\frac{1}{5}} y = -1$$

$$\log_{\frac{1}{81}} s = -1$$

$$73. \log_f \frac{1}{4} = -\frac{1}{2}$$

$$\ln e^3 = y$$

$$\log_{\frac{1}{3}} \frac{1}{27} = d$$

$$\log 100 = y$$

$$74. \log_c \frac{1}{2} = -\frac{1}{10}$$

$$\log_2 p = 0$$

$$\log_3 z = -1$$

$$\log_f \frac{1}{128} = 7$$

$$75. \log_{\frac{1}{256}} \frac{1}{256} = c$$

$$\log_9 1 = y$$

$$\log_5 f = 3$$

$$\log_{32} d = 1$$

$$76. \log_r \frac{1}{2} = -\frac{1}{5}$$

$$\log / = -5$$

$$\log_8 256 = -8$$

$$\log_{\frac{1}{100}} \frac{1}{10} = b$$

$$77. \log_{\frac{1}{10}} 10 = b$$

$$\log_{64} 8 = h$$

$$\log_8 36 = 1$$

$$\log_{1024} 1024 = a$$

$$78. \log_l \frac{1}{e^4} = 4$$

$$\log_4 \frac{1}{4} = n$$

$$\log_2 p = 5$$

$$\log_8 \frac{1}{64} = 2$$

$$79. \log_{\frac{1}{49}} q = 0$$

$$\log_{\frac{1}{100}} m = 0$$

$$\log_8 \frac{1}{8} = -3$$

$$\log_{\frac{1}{16}} x = -\frac{1}{2}$$

$$80. \log_4 4 = x$$

$$\log_{\frac{1}{10}} 1000 = w$$

$$\log_{36} q = \frac{1}{2}$$

$$\log_{\frac{1}{100}} 1 = p$$

$$81. \log_{\frac{1}{64}} r = \frac{1}{2}$$

$$\log_{16} 1 = m$$

$$\log_{\frac{1}{16}} f = 0$$

$$\log_{1000} m = -\frac{1}{3}$$

$$82. \log_{\frac{1}{2}} \frac{1}{32} = p$$

$$\log_{\frac{1}{1000}} v = 0$$

$$\log 100 = b$$

$$\log_{\frac{1}{3}} \frac{1}{4} = -\frac{1}{4}$$

$$83. \log_{\frac{1}{49}} l = -\frac{1}{2}$$

$$\log_m \frac{1}{2} = -\frac{1}{10}$$

$$\log_{1024} 2 = a$$

$$\log_2 4 = r$$

$$84. \log_{\frac{1}{10}} u = 1$$

$$\log f = -6$$

$$\log_{\frac{1}{32}} 1 = l$$

$$\log_{49} y = 0$$

$$85. \log_8 a = 0$$

$$\log_z \frac{1}{8} = 1$$

$$\log_{49} h = 1$$

$$\log_{\frac{1}{2}} 16 = t$$

$$86. \log_{\frac{1}{10}} y = 1$$

$$\log_{\frac{1}{9}} \frac{1}{3} = k$$

$$\log_5 125 = n$$

$$\log_9 3 = y$$

$$87. \log_{\frac{1}{10}} p = 1$$

$$\log_{\frac{1}{2}} 512 = h$$

$$\log_{\frac{1}{2}} 16 = u$$

$$\log_{\frac{1}{8}} \frac{1}{6} = s$$

$$88. \log_{16} b = \frac{1}{4}$$

$$\log_{\frac{1}{8}} \frac{1}{8} = x$$

$$\log_{256} b = 1$$

$$\log_{\frac{1}{10}} b = 0$$

$$89. \log_{\frac{1}{2}} 2 = \frac{1}{6}$$

$$\log_h 25 = -2$$

$$\log_m 4 = -1$$

$$\log_8 f = 1$$

$$90. \log_{\frac{1}{6}} 36 = n$$

$$\log_{\frac{1}{512}} c = -\frac{1}{9}$$

$$\log_{\frac{1}{3}} \frac{1}{27} = l$$

$$\log_{49} w = -\frac{1}{2}$$

$$91. \log \frac{1}{100000} = v$$

$$\log \frac{1}{1000} = j$$

$$\log_{128} a = -\frac{1}{7}$$

$$\log_{\frac{1}{5}} 5 = r$$

$$92. \log_4 j = 1$$

$$\log_{\frac{1}{1024}} r = 1$$

$$\log_{\frac{1}{36}} 1 = u$$

$$\log_{\frac{1}{4}} h = 2$$

$$93. \log_{\frac{1}{3}} \frac{1}{3} = a$$

$$\log_5 \frac{1}{25} = l$$

$$\log_b 8 = 3$$

$$\log_{32} 1 = g$$

$$94. \log_t \frac{1}{4} = -1$$

$$\log_m \frac{1}{256} = 1$$

$$\log_7 t = 0$$

$$\log_j 2 = 1$$

$$95. \log_b 100 = -2$$

$$\log_{512} 1 = w$$

$$\log_{\frac{1}{2}} z = 5$$

$$\log_2 h = 4$$

$$96. \log_{32} \frac{1}{2} = g$$

$$\log_a 256 = -1$$

$$\log_q 10 = -1$$

$$\log_{\frac{1}{1000}} 1000 = f$$

$$97. \log_{\frac{1}{250}} z = \frac{1}{2}$$

$$\log_c 8 = \frac{1}{2}$$

$$\log_4 \frac{1}{2} = l$$

$$\log_{49} d = 0$$

$$98. \log_t e^4 = -4$$

$$\log_{32} s = 0$$

$$\log_2 w = -6$$

$$\log_{\frac{1}{2}} v = -3$$

$$99. \log_5 1 = j$$

$$\log_{\frac{1}{25}} 1 = c$$

$$\log l = 1$$

$$\log_{\frac{1}{125}} \frac{1}{125} = d$$

$$100. \log_{\frac{1}{5}} 1 = t$$

$$\log_{1000} b = \frac{1}{3}$$

$$\log_{\frac{1}{4}} w = 0$$

$$\log_{49} 81 = -1$$

$$101 \log_{\frac{1}{2}} \frac{1}{2} = k$$

$$\log_{\frac{1}{5}} t = -2$$

$$\log_{16} t = 1$$

$$\log_j \frac{1}{16} = -4$$

$$102 \log_2 v = 2$$

$$\log_2 k = 9$$

$$\log_{\frac{1}{256}} \frac{1}{4} = r$$

$$\log_n \frac{1}{8} = -1$$

$$103 \log_m 2 = -\frac{1}{9}$$

$$\log_g \frac{1}{36} = -1$$

$$\log_v 6 = \frac{1}{2}$$

$$\log_3 1 = h$$

$$104 \log_{32} 32 = p$$

$$\log_{64} \frac{1}{2} = z$$

$$\ln e = j$$

$$\log_k \frac{1}{64} = -2$$

$$105 \log_{49} \frac{1}{7} = s$$

$$\log_{\frac{1}{e^2}} \frac{1}{e^2} = b$$

$$\log_{25} 1 = a$$

$$\log_{256} \frac{1}{2} = h$$

$$106 \log_r \frac{1}{81} = -2$$

$$\log_n \frac{1}{2} = \frac{1}{6}$$

$$\log_{\frac{1}{5}} r = 2$$

$$\log_b 10 = 1$$

$$107 \log_{32} \frac{1}{2} = w$$

$$\log_s 10 = -\frac{1}{3}$$

$$\log_6 z = -1$$

$$\log_{\frac{1}{10}} r = 2$$

$$108 \log_{128} h = \frac{1}{7}$$

$$\log_{256} 4 = b$$

$$\log_j 6 = \frac{1}{2}$$

$$\log_l 9 = 2$$

$$109 \log_{25} k = 0$$

$$\log_{81} \frac{1}{81} = n$$

$$\log_{\frac{1}{10}} s = 4$$

$$\log_2 m = -7$$

$$110 \log_{\frac{1}{36}} l = -1$$

$$\log_{\frac{1}{2}} \frac{1}{1024} = q$$

$$\log_2 j = -1$$

$$\log_{\frac{1}{8}} 1 = d$$

$$111 \log_{\frac{1}{2}} \frac{1}{2} = -\frac{1}{6}$$

$$\log_{\frac{1}{36}} a = 1$$

$$\log_{\frac{1}{512}} l = -\frac{1}{9}$$

$$\log_{\frac{1}{3}} \frac{1}{27} = t$$

$$112 \log_{\frac{1}{2}} c = 2$$

$$\log_u 16 = -2$$

$$\log_s 10 = \frac{1}{3}$$

$$\log 1000000 = w$$

$$113 \log_{\frac{1}{2}} \frac{1}{64} = h$$

$$\log_r 32 = 1$$

$$\log_2 b = -6$$

$$\log_{1000} h = 0$$

$$114 \log_{\frac{1}{36}} n = -\frac{1}{2}$$

$$\log_{\frac{1}{7}} a = 0$$

$$\log_{\frac{1}{81}} \frac{1}{81} = b$$

$$\log \frac{1}{100000} = v$$

$$115 \log_{\frac{1}{512}} 2 = x$$

$$\log_{\frac{1}{1000}} x = -1$$

$$\log_x 25 = -2$$

$$\log_4 64 = p$$

$$116 \log_9 \frac{1}{3} = n$$

$$\log_{\frac{1}{5}} 1 = l$$

$$\log_{\frac{1}{5}} a = 3$$

$$\log_{\frac{1}{3}} h = 2$$

$$117 \log 100 = p$$

$$\log_{\frac{1}{9}} d = -2$$

$$\log_{\frac{1}{5}} x = 1$$

$$\log_{\frac{1}{100}} 100 = d$$

$$118 \log_{\frac{1}{3}} \frac{1}{27} = f$$

$$\log_q \frac{1}{36} = 1$$

$$\log_9 \frac{1}{3} = k$$

$$\ln c = -4$$

$$119 \log_{32} m = 1$$

$$\log_{\frac{1}{256}} 4 = h$$

$$\log_{49} k = 0$$

$$\log_{\frac{1}{49}} u = 0$$

$$120 \log_s 64 = 1$$

$$\log_v \frac{1}{e^3} = -3$$

$$\log_{\frac{1}{81}} b = 0$$

$$\log_{\frac{1}{64}} z = -1$$