

2/27/11 11:11 AM

(1) $\frac{1}{2} \log \frac{1}{2} = -0.5$ (2) $\frac{1}{4} \log \frac{1}{4} = -0.5$ (3) $\frac{1}{8} \log \frac{1}{8} = -0.5$ (4) $\frac{1}{16} \log \frac{1}{16} = -0.5$ (5) $\frac{1}{32} \log \frac{1}{32} = -0.5$ (6) $\frac{1}{64} \log \frac{1}{64} = -0.5$ (7) $\frac{1}{128} \log \frac{1}{128} = -0.5$ (8) $\frac{1}{256} \log \frac{1}{256} = -0.5$ (9) $\frac{1}{512} \log \frac{1}{512} = -0.5$ (10) $\frac{1}{1024} \log \frac{1}{1024} = -0.5$ (11) $\frac{1}{2048} \log \frac{1}{2048} = -0.5$ (12) $\frac{1}{4096} \log \frac{1}{4096} = -0.5$ (13) $\frac{1}{8192} \log \frac{1}{8192} = -0.5$ (14) $\frac{1}{16384} \log \frac{1}{16384} = -0.5$ (15) $\frac{1}{32768} \log \frac{1}{32768} = -0.5$ (16) $\frac{1}{65536} \log \frac{1}{65536} = -0.5$ (17) $\frac{1}{131072} \log \frac{1}{131072} = -0.5$ (18) $\frac{1}{262144} \log \frac{1}{262144} = -0.5$ (19) $\frac{1}{524288} \log \frac{1}{524288} = -0.5$ (20) $\frac{1}{1048576} \log \frac{1}{1048576} = -0.5$ (21) $\frac{1}{2097152} \log \frac{1}{2097152} = -0.5$ (22) $\frac{1}{4194304} \log \frac{1}{4194304} = -0.5$ (23) $\frac{1}{8388608} \log \frac{1}{8388608} = -0.5$ (24) $\frac{1}{16777216} \log \frac{1}{16777216} = -0.5$ (25) $\frac{1}{33554432} \log \frac{1}{33554432} = -0.5$ (26) $\frac{1}{67108864} \log \frac{1}{67108864} = -0.5$ (27) $\frac{1}{134217728} \log \frac{1}{134217728} = -0.5$ (28) $\frac{1}{268435456} \log \frac{1}{268435456} = -0.5$ (29) $\frac{1}{536870912} \log \frac{1}{536870912} = -0.5$ (30) $\frac{1}{1073741824} \log \frac{1}{1073741824} = -0.5$ (31) $\frac{1}{2147483648} \log \frac{1}{2147483648} = -0.5$ (32) $\frac{1}{4294967296} \log \frac{1}{4294967296} = -0.5$ (33) $\frac{1}{8589934592} \log \frac{1}{8589934592} = -0.5$ (34) $\frac{1}{17179869184} \log \frac{1}{17179869184} = -0.5$ (35) $\frac{1}{34359738368} \log \frac{1}{34359738368} = -0.5$ (36) $\frac{1}{68719476736} \log \frac{1}{68719476736} = -0.5$ (37) $\frac{1}{137438953472} \log \frac{1}{137438953472} = -0.5$ (38) $\frac{1}{274877906944} \log \frac{1}{274877906944} = -0.5$ (39) $\frac{1}{549755813888} \log \frac{1}{549755813888} = -0.5$ (40) $\frac{1}{1099511627776} \log \frac{1}{1099511627776} = -0.5$ (41) $\frac{1}{2199023255552} \log \frac{1}{2199023255552} = -0.5$ (42) $\frac{1}{4398046511104} \log \frac{1}{4398046511104} = -0.5$ (43) $\frac{1}{8796093022208} \log \frac{1}{8796093022208} = -0.5$ (44) $\frac{1}{17592186044416} \log \frac{1}{17592186044416} = -0.5$ (45) $\frac{1}{35184372088832} \log \frac{1}{35184372088832} = -0.5$ (46) $\frac{1}{70368744177664} \log \frac{1}{70368744177664} = -0.5$ (47) $\frac{1}{140737488355328} \log \frac{1}{140737488355328} = -0.5$ (48) $\frac{1}{281474976710656} \log \frac{1}{281474976710656} = -0.5$ (49) $\frac{1}{562949953421312} \log \frac{1}{562949953421312} = -0.5$ (50) $\frac{1}{1125899906842624} \log \frac{1}{1125899906842624} = -0.5$ (51) $\frac{1}{2251799813685248} \log \frac{1}{2251799813685248} = -0.5$ (52) $\frac{1}{4503599627370496} \log \frac{1}{4503599627370496} = -0.5$ (53) $\frac{1}{9007199254740992} \log \frac{1}{9007199254740992} = -0.5$ (54) $\frac{1}{18014398509481984} \log \frac{1}{18014398509481984} = -0.5$ (55) $\frac{1}{36028797018963968} \log \frac{1}{36028797018963968} = -0.5$ (56) $\frac{1}{72057594037927936} \log \frac{1}{72057594037927936} = -0.5$ (57) $\frac{1}{144115188075855872} \log \frac{1}{144115188075855872} = -0.5$ (58) $\frac{1}{288230376151711744} \log \frac{1}{288230376151711744} = -0.5$ (59) $\frac{1}{576460752303423488} \log \frac{1}{576460752303423488} = -0.5$ (60) $\frac{1}{1152921504606846976} \log \frac{1}{1152921504606846976} = -0.5$ (61) $\frac{1}{2305843009213693952} \log \frac{1}{2305843009213693952} = -0.5$ (62) $\frac{1}{4611686018427387904} \log \frac{1}{4611686018427387904} = -0.5$ (63) $\frac{1}{9223372036854775808} \log \frac{1}{9223372036854775808} = -0.5$ (64) $\frac{1}{18446744073709551616} \log \frac{1}{18446744073709551616} = -0.5$ (65) $\frac{1}{36893488147419103232} \log \frac{1}{36893488147419103232} = -0.5$ (66) $\frac{1}{73786976294838206464} \log \frac{1}{73786976294838206464} = -0.5$ (67) $\frac{1}{147573952589676412928} \log \frac{1}{147573952589676412928} = -0.5$ (68) $\frac{1}{295147905179352825856} \log \frac{1}{295147905179352825856} = -0.5$ (69) $\frac{1}{590295810358705651712} \log \frac{1}{590295810358705651712} = -0.5$ (70) $\frac{1}{1180591620717411303424} \log \frac{1}{1180591620717411303424} = -0.5$ (71) $\frac{1}{2361183241434822606848} \log \frac{1}{2361183241434822606848} = -0.5$ (72) $\frac{1}{4722366482869645213696} \log \frac{1}{4722366482869645213696} = -0.5$ (73) $\frac{1}{9444732965739290427392} \log \frac{1}{9444732965739290427392} = -0.5$ (74) $\frac{1}{18889465931478580854784} \log \frac{1}{18889465931478580854784} = -0.5$ (75) $\frac{1}{37778931862957161709568} \log \frac{1}{37778931862957161709568} = -0.5$ (76) $\frac{1}{75557863725914323419136} \log \frac{1}{75557863725914323419136} = -0.5$ (77) $\frac{1}{151115727451828646838272} \log \frac{1}{151115727451828646838272} = -0.5$ (78) $\frac{1}{302231454903657293676544} \log \frac{1}{3022314549036572$

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1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

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