What is the difference if we either

minimize sum_i log(1-d(x_i)) minimize sum_i -log(d(x_i))

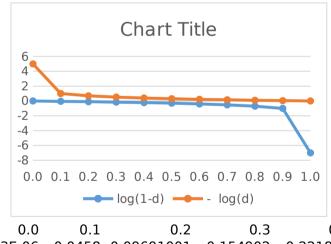
Compare the 2 losses on a small fake batch {x1,x2}

			sum_i sum_i
x1	x2		$log(\overline{1}-d(x_i)) - log(\overline{d}(x_i))$
	0.5	0.8	-1 0.39794
	0.6	0.7	-0.92081875 0.3767507
	0.01	0.99	-2.00436481 2.0043648
	0.99	0.99	-4 0.0087296

Observe:

Blue loves if any D(x_i)~1 "GOOD" Red hates if any D(x_i)~0 "BAD"





		0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
minimize	log(1-d)	-4.343E-06	-0.0458	-0.09691001	-0.154902	-0.221849	-0.30103	-0.39794	-0.522879	-0.69897	-1	-7
minimize	- log(d)	5	1	0.69897	0.5228787	0.39794	0.30103	0.2218487	0.154902	0.09691	0.045757	4.34E-08