

99% loga leero 100ks repy mener 98% boga croesso becer oxypyn noche Penemie tocal 100 kg X KL leero cyx. bey-60 1 KI 1 KL CYX020 2% 1 = 0,02x X= 50 M Ombem: orphyn Recot Jone  $2^{x} = 300$   $x = log_{2} 300$  $31.2^{x} = 256$   $2^{x} = 28$   $2^{x} = 28$  $X = \log_2(2^2 \cdot 5^2 \cdot 3) = 2 + \log_2 75$ 4.  $3 \log_{3}(5x-5) = 5$  x > 1.  $\log_{3}(5x-5) = 5$   $3 \log_{3}(5x-5) = 5$   $3 \log_{3}(5x-5) = 5$ 3,  $\log_8 2^{8x-9} = 9$  $\log_{2^{3}} 2^{8r-4} = 9$   $\frac{1}{3} \log_{2} 2 = 9$ logs (3 & logs (5x-5)) = logs 5 8x-4=4.3 x = 2 2 log (3x-5) = log 55 \$(log3 (x-1) + log35) = log35  $log_3(x-1) = log_3 5$  x-1=5 1x=6 1x=6 1x=6 1x=6 1x=6 1x=6 1x=6 1x=6

5.  $x \log_3 x + 1 = 9$  |x| > -1!  $\log_3 (x \log_3 x + 1) = \log_3 3^2$  $\log_3 x + 1 \log_3 x = 2$ t- log3x Ett t-2=0 Ombern: 9:3 6. logy 16 = logy 42 = 2 7. log = = log = 5 = -2 8.  $\log_{25} 5 = \log_{52} 5 = \frac{1}{2} \log_{5} 5 = \frac{1}{2}$ 9.  $\log_{3} \sqrt{27} = \log_{3} 3^{\frac{3}{2}} = \frac{3}{2}$ 10, log 12 - log 3 = log 3 = log 4 = 2 11, logo 12 + logo 3 = logo (12.3) = 2 12. e en5 = 5 13. log2 225 = log,5 225 = 2 14.  $\log_9 32 + \log_{01} 10 = \log_{2} 2^5 + \log_{10} 10 = \frac{5}{2} - 1 = 1.5$ 15.  $g \log_3 15 = g \log_9 12 = g \log_9 5 = 5$ 

