



CLASSE 2^A LICEO CLASSICO

20 Febbraio 2009

ESPONENZIALI/LOGARITMI

COGNOME _____ NOME _____

1. $32^x + 2^{5x+1} + 5 \cdot 2^{5x-1} = 88$ _____ / 3,5
2. $8^{2x} + 2^{3(x+1)} = 20$ _____ / 3,5
3. $6^{3x-2} \geq \left(\frac{1}{7}\right)^{-3x+2}$ _____ / 2
4. $6^x > 7 \cdot 36^x + 6^{x+1}$ _____ / 1,5
5. $\log_{3/4} (3x - 18) - \log_{3/4} (2x + 1) = \log_{3/4} (5 - x)$ _____ / 2,5
6. $\ln (14 + 2x) = 2 \ln (x + 3)$ _____ / 4,5
7. $\log_3 (3x - 1) - \log_3 (x + 2) = 2$ _____ / 4
8. $\ln x^6 - 5 > \ln x$ _____ / 2
9. $\log_{\frac{5}{3}} (x^2 - 1) - \log_{\frac{5}{3}} (x - 2) > 1$ _____ / 5