21/3/2018

## COMPLEMENTI LOGARITMICI

## DISFAUAZIONI LOGARITMICHE

 $\alpha > 1$   $y = \log_{\alpha} \times$   $x_{1} \times x_{2} \times x_{3}$ 

CRESCENTE!

×1 (×2 <=> loga ×1 < loga ×2

log3 (2-5x) > 2 · log3

 $L_{23}(2-5\times) > L_{23}3^{2}$ 

PASSO
AGLI
ARCOMENTI
MANTENENDO
LA DISUGVAGLIANZA

PEnané a>1

 $\int x < \frac{2}{5}$   $2 - 5 \times 9$ 

C.E.
2-5×>0
-5×>-2

×
2-5

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2-5

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3-5

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DECRESCENTE!

x, < x2 (=> logax1 > logax2

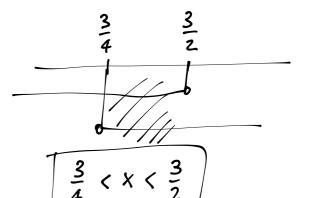
$$20/3(4x-3)>-1$$

$$20/4(4x-3)>-1.20/3$$

$$l_{\frac{3}{3}}(4x-3) > l_{\frac{3}{3}}^{3}$$

$$\begin{cases} 4 \times -3 < 3 \\ 4 \times 3 \end{cases}$$

$$\begin{cases} 4 \times \langle 6 \rangle & \begin{cases} \times \langle \frac{6}{4} \rangle & \begin{cases} \times \langle \frac{3}{2} \rangle \\ \times \rangle \frac{3}{4} \end{cases} & \begin{cases} \times \langle \frac{3}{2} \rangle \\ \times \rangle \frac{3}{4} \end{cases} \end{cases}$$

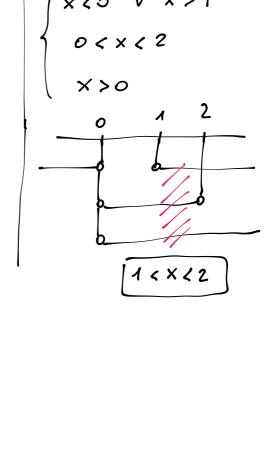


$$\begin{cases} -x^{2}+2x < x^{2} \\ -x^{2}+2x > 0 \\ x > 0 \end{cases}$$

$$\begin{cases} -2x^{2}+2x < 0 \\ x^{2}-2x < 0 \\ x > 0 \end{cases}$$

$$\begin{cases} 2x^2 - 2x > 0 \\ x^2 - 2x < 0 \\ x > 0 \end{cases} \begin{cases} 2x(x-1) > 0 \\ x(x-2) < 0 \\ x > 0 \end{cases}$$

METODO MATH COOL: Osservo che c'é x>0



3.11 = 2 Eq. ESPONEMENTALE

 $11^{\times} = \frac{2}{3}$  ] applies of entranhi i membri log11

 $log_{11}(11^{\times}) = log_{11}\left(\frac{2}{3}\right)$ 

 $X = \log_{14} \frac{2}{3}$  per ottenere la soluzione del libro

 $log_{11} \frac{2}{3} = \frac{log_{\frac{2}{3}}}{log_{11}} = \frac{log_{2} - log_{3}}{log_{11}}$