l'andamento della funzione e disegna il suo grafico.

$$y = \underbrace{a \times + b}_{\times + c}$$

$$x + c$$

$$x +$$

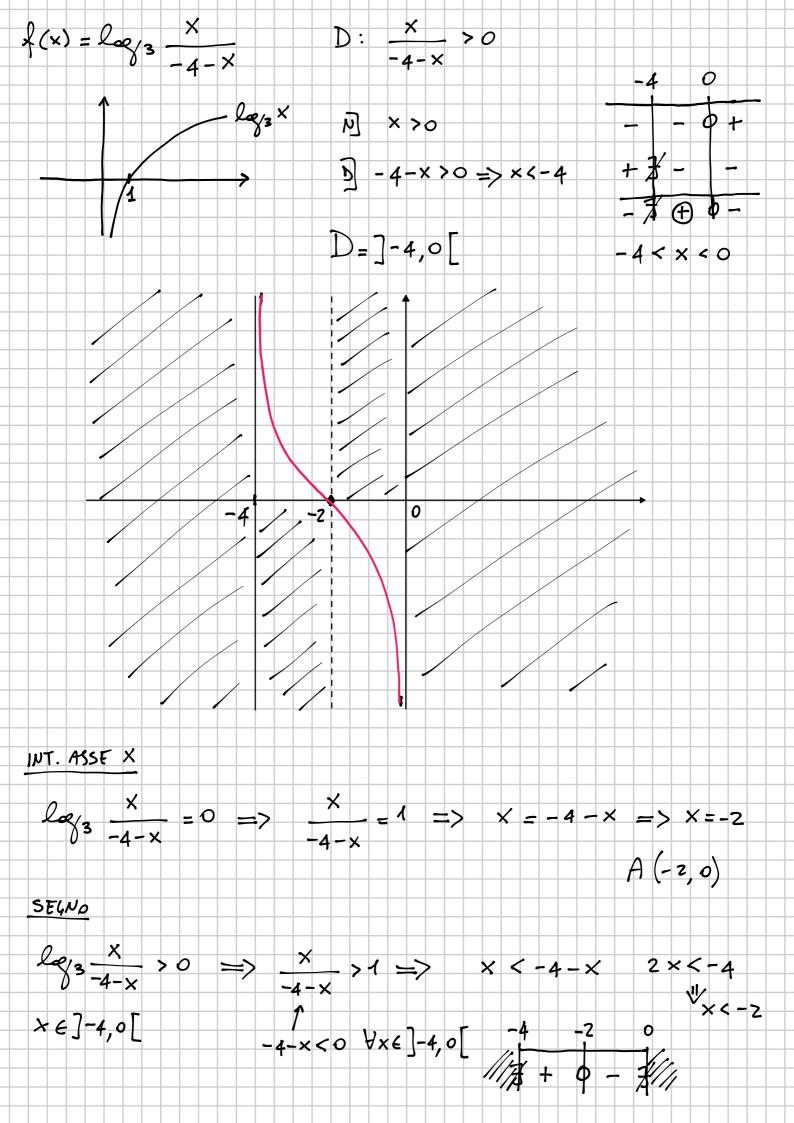
$$y = 2\sqrt{3} \frac{3\alpha + x}{3\alpha + x}$$

$$-1 = 2\sqrt{3} \frac{3\alpha - 1}{3\alpha - 3}$$

$$\left(\frac{3\alpha - 1}{3\alpha - 3}\right)$$

$$\alpha < \frac{4}{3}$$

$$3^{-1} = \frac{3\alpha - 1}{-3}$$
  $\frac{1}{3} = \frac{-3\alpha + 1}{3} = 2$   $\alpha = 0$ 



LIMIT! 
$$D = ]-4, o[$$
 $\lim_{x \to -4^{+}} log_{3} \frac{x}{-4-x} = log_{3} \frac{-4}{0^{-}} = log_{3} (+\infty) = +\infty$ 
 $\lim_{x \to -4^{+}} log_{3} \frac{x}{-4-x} = log_{3} \frac{0}{-4} = log_{3} 0^{+} = -\infty$ 
 $\lim_{x \to 0^{-}} log_{3} \frac{x}{-4-x} = log_{3} \frac{0}{-4} = log_{3} 0^{+} = -\infty$ 
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 $\lim_{x \to 0^{+}} log_{3} \frac{x}{-4-x} = log_{3} \frac{0}{-4-x} = log_{3} 0^{+} = log_{3}$ 

## DERIVATA SEZONDA

$$f(x) = \frac{1}{\ln 3} \cdot \frac{4}{x(x+4)} = \frac{4}{\ln 3} (x^2 + 4x)^{-1}$$

$$x^2 + 4x$$

$$\int_{0}^{11} (x) = -\frac{4}{\ln 3} (x^{2} + 4x)^{-2} (2x + 4) = -\frac{4}{\ln 3} \frac{2x + 4}{(x^{2} + 4x)^{2}}$$

$$2 \times + 4 = 0 \Rightarrow \times = -2$$
 CANDIDATO

