Esame 15 glugno

$$\lim_{x \to +\infty} \int_{-\infty}^{\infty} x \sin\left(\frac{1}{x}\right)$$

$$f(x) = \frac{x^{x}}{e^{x}}$$
 $f' =$

$$\int_{1}^{2} \frac{x}{|x|} dx$$

$$\sum_{n=1}^{\infty} \left(-1\right)^{n} \cos\left(\frac{1}{n}\right)$$

$$\lim_{x\to a} \frac{e^{x} - e^{-2x}}{x}$$

$$\lim_{x\to\infty}\frac{e^{x}-e^{-2x}}{x}$$

$$\begin{cases} x: e^{-\frac{1}{\varepsilon^2}} < \frac{1}{e} \end{cases}$$

$$\int_{0}^{+\infty} \frac{x}{1+x^{2}} dx$$

$$f(x) = x^2 h x$$
 x>0

$$\frac{2}{\underline{z}} = \frac{1}{2} + \frac{i}{2} \qquad \boxed{\frac{2^n}{n \in N}} \qquad \lim_{n \to +\infty} 2^n$$

$$f(x) = x$$

$$f(x) = \frac{7!}{!}$$

$$\lim_{x\to 0^+} x^{(x^2)}$$

Ammette massimo?

$$f(x) = \frac{x^4}{x^6 + \sin(x)}$$

$$A = \begin{cases} y = x^3 - x^2 & \text{con } x \in [0, 2 \Gamma] \end{cases}$$

$$\lim_{x\to 0^+} \frac{\sin(x)}{x+\sqrt{x}}$$

$$\sum_{n=0}^{\infty} \frac{(-1)^n}{1+n^2} (X-2)^n$$

$$f(x) = x^2 + \frac{\sin(x)}{x}$$

3M>0 & É CONVESSA PER X>M

$$2\frac{\overline{2}+1}{2^2}=1$$

$$f(x) = sin(x) cos(x)$$

$$f'(\pi/2) = ?$$