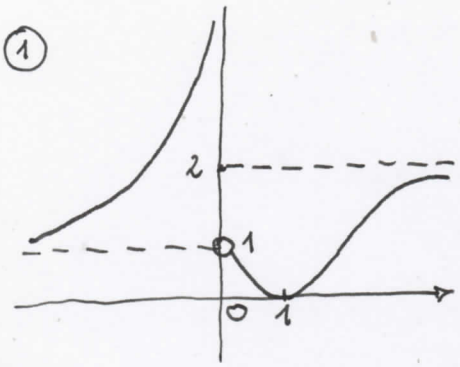
①



Calcolare:

1) $\mathcal{D} = \text{dom} f$,

2) $f(1)$, 3) $\lim_{x \to +\infty} f(x)$, 4) $\lim_{x \to -\alpha} f(x)$,

5) $\lim_{x \to 0^-} f(x)$, 6) $\lim_{x \to 0^+} f(x)$

② $\lim_{x \to +\infty} \dfrac{-4x^3 + x + 100}{x^2 + 2x + \pi} =$

③ $\lim_{x \to 1^+} 3^{\frac{1}{1-x}} =$ ④ $\lim_{x \to 1^-} 3^{\frac{1}{1-x}} =$

⑤ $\lim_{x \to +\alpha} \dfrac{3x^2 + x - 1}{x - 4x^2 + 3} =$ ⑥ $\lim_{x \to -\alpha} \dfrac{x^2 + x + 1}{-2x + 1}$

Domini

⑦ $f(x) = \ln\left(\dfrac{|x| - 2}{4 - x^2}\right)$ ⑧ $f(x) = \dfrac{\sqrt{9 - x^2}}{\sqrt{2x^2 - x - 1}}$