

2.7.1

$$d) f(x) = \frac{x^3}{4-x^2}$$

AH/AO

$$\left(\lim_{x \rightarrow \infty} f(x) \stackrel{\text{"BIG"}}{=} \lim_{x \rightarrow \infty} \frac{x^3}{-x^2} = \lim_{x \rightarrow \infty} \frac{x}{-1} = \infty \quad \text{pas d'AH} \right)$$

AO car $\deg(N) = \deg(D) + 1$: $3 = 2 + 1$

$$\begin{array}{r} x^3 \\ -x^3 + 4x \\ \hline 4x \end{array} \quad \begin{array}{r} -x^2 + 4 \\ -x \end{array}$$

$$f(x) = -x + \frac{4x}{-x^2+4}$$

$\Rightarrow y = -x$ est une AO