ASINTOTI OBLIQUI

$y = mx + q$ asintoto obliquo di $y = f(x)$ se

$$m = \lim_{x \to \infty} \left(\frac{f(x)}{x} \right) \quad \text{e} \quad q = \lim_{x \to \infty} \left[f(x) - mx \right]$$

ES

$$f(x) = \frac{1 - 3x - x^2}{x + 3} \qquad D_f = \{ x \in \mathbb{R} / x \neq -3 \} =$$

$$= (-\infty; -3) \cup (-3; +\infty)$$

$$\lim_{x \to -\infty} \frac{f(x)}{x} = -1 \qquad m = -1 \qquad \boxed{y = mx + q}$$

$$\lim_{x \to -\infty} \left[f(x) + x \right] = \lim_{x \to -\infty} \frac{1 - 3x - x^2 + x^2 + 3x}{x + 3} = 0$$

$y = -x$ ASINTOTO OBLIQUO PER $x \to -\infty$