

Estudiar el signo y graficar:

$$f : f(x) = 2|x + 3| - |2x - 2|$$

$$g : g(x) = |x + 3| - \text{sg}(2x - 2)$$

$$h : h(x) = |x - 2| - |x^2 - 4|$$

$$i : i(x) = |2x - 1| - \text{sg}(x^2 - 4) + 3x$$

$$j : j(x) = |x - 1|^2 + 3|x - 1| - 10$$

$$k : k(x) = \text{sg}^2(x - 1) + 3\text{sg}(x - 1) - 10$$

$$l(x) = |x + 1| - 4\text{sg}(x^2 - 1)$$

$$m(x) = |x^2 - 4| - x^2 \cdot \text{sg}(x - 2)$$

$$n(x) = |3x - 6| + 2x - \text{sg}(x + 2)$$

$$\tilde{n}(x) = |3x^2 - 12| - 3x^2 - 6x \cdot \text{sg}(x + 3)$$