

Back

compare $f(-x)$ with $f(x)$

$$f(x) = 6x - x^3$$

$$f(-x) = 6(-x) - (-x)^3$$

$$= 6(-x) - (-x^3)$$

$$= -6x + x^3$$

$$f(-x) \neq f(x)$$

$f(x)$ is not an even function

$(-x)^n = -x^n$ if n is odd

simplify

compare
