derivative of a function

exercise 1

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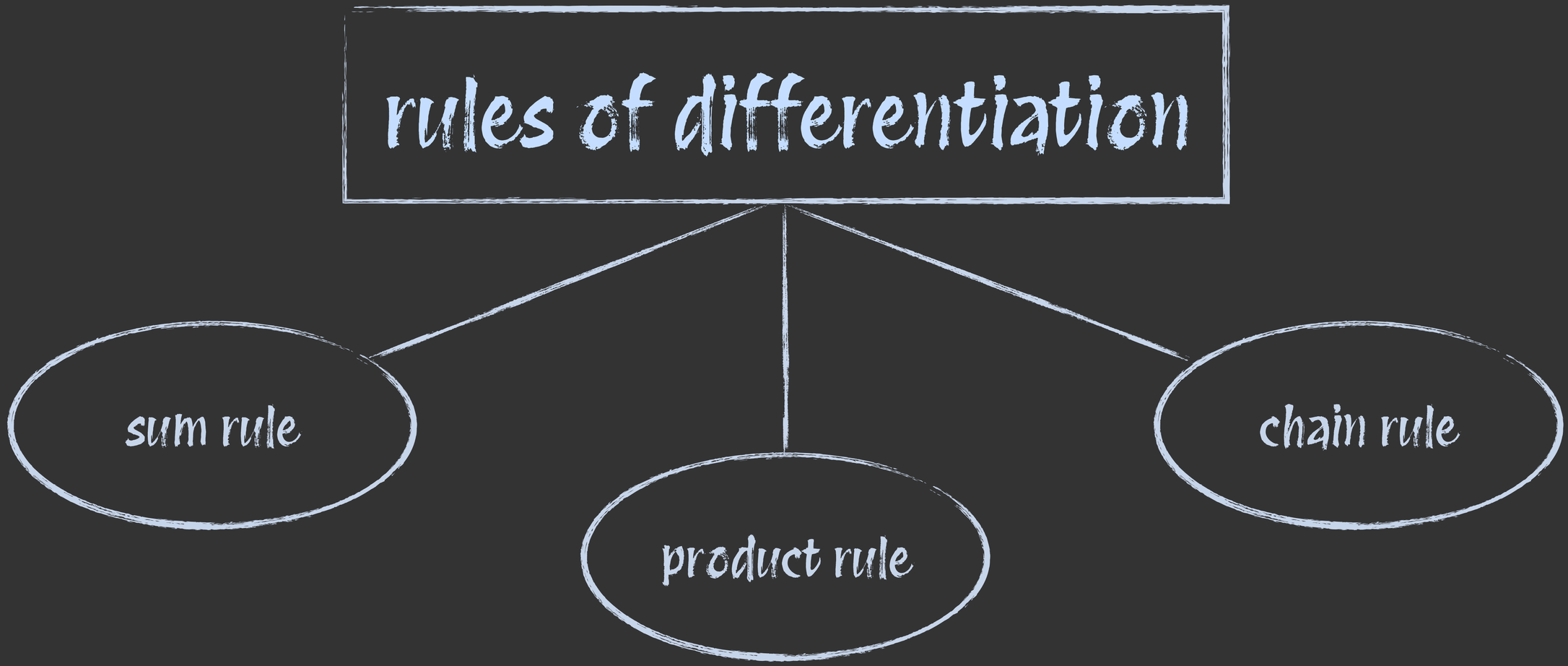
Show that the derivative of x^n for a positive whole number n is equal to nx^{n-1}.

In theory, we could now go on and find derivatives of "all" algebraic functions by definition.
But that's too time consuming and impractical…


rules of differentiation
sum rule
product rule
chain rule