

Exploiting Derivative Rules

Every differentiation rule $F'(x) = f(x)$ corresponds to a rule for finding the anti-derivative $F(x)$ of some function f .

- a) Find an anti-derivative rule that is the inverse of the sum rule $(f + g)'(x) = f'(x) + g'(x)$.
- b) Find an anti-derivative rule that is the inverse of the product rule $(f \cdot g)'(x) = f(x)g'(x) + f'(x)g(x)$.

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