

Section 3

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October 19, 2022

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1 Partial Antiderivatives

- *Ex.* $\frac{\delta f}{\delta x} = 3x^2 - 5y^2 \Rightarrow f = x^3 - 5y^2x + g(y)$
- $\int_y^{y^2} 3x^2 - 5y^2 dx \Rightarrow y^6 - 5y^4 - (y^3 - 5y^3) = y^6 - 5y^4 + 4y^3$