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Diket: $M(x,y) dx + (2x^2y^3 + x^4y) dy = 0$

PD eksak $\xrightarrow{JK} \frac{\partial M}{\partial y}(x,y) = \frac{\partial N}{\partial x}(x,y)$

$$\frac{\partial N}{\partial x}(x,y) = 4xy^3 + 4x^3y \rightarrow \text{sama dengan } \frac{\partial M}{\partial y}(x,y)$$

$M(x,y)$

$$\Rightarrow \int (4xy^3 + 4x^3y) dy = xy^4 + 2x^3y^2 + C$$

Jika $C=0$, maka

$$M(x,y) = xy^4 + 2x^3y^2$$

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