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Parcial Corte

$x^2 - xy + y^3 = 10$

$x^2 \frac{dx}{dy} - xy \frac{dx}{dy} + y^3 \frac{dy}{dx} = 10 \frac{dx}{dy}$

$2x - x \cdot 1 + x \cdot 1 + 3y^2 \cdot y' = 0$

$2x - x + y + 3y^2 \cdot y' = 0$

$y' = -2x + x + y + 3y^2$

$y' = -x + 4y^2$

$y' = \frac{-x}{+4y^2} \times \frac{dy}{dx}$

$y'' = \frac{(4y^2) \times (-x)\frac{dx}{dx} - (4y^2)\frac{dy}{dx} \times (-x)}{(4y^2)^2}$

$y'' = \frac{(4y^2) \times (-1) - (2)(4)(y \times y' \times (-x)}{4y^4}$

$y'' = (4y^2 \cdot -1) - (8y \times y' \times -x$

$= 4y^2 - \frac{8yx \times y'}{4y^4}$

$= \frac{4y^2 - 8yx \times \left(\frac{4y^2}{1}\right)}{4y^4} = \frac{4y^2 - 8yx / y}{4y^4}$

$= \frac{(4y^2 - 8xy)/y}{4y^4} \quad \left| \frac{y - 8xy}{1} \quad \frac{y - 8xy}{y} \right.$

$= \frac{y - 8xy}{y^4} < \frac{y^4}{y^4} = y^8 = \frac{y - 8xy}{y^8} \quad y'' = \frac{y(1 - 8x)}{y^8}$

R// $\boxed{y'' = \frac{y(1-8x)}{y^8}}$

$x * y = \cos(x * y)$

$\frac{d}{dx}(x \cdot y) = x \frac{dy}{dx} + 1$

$y' = x \cdot 0 + y = y$

$y = -\operatorname{sen} \cdot (x * y) \frac{dx}{dy} \cdot$

$y = -\operatorname{sen}(x * y) * (x \frac{dx}{dy} + y)$

$y = -\operatorname{sen}(x * y) * (x \cdot \frac{dy}{0} + y)$

$y = -\operatorname{sen}(x * y) * y'$

R// $\boxed{y' = \frac{-\operatorname{sen}(x * y)}{y}}$