$$\frac{\partial^2 w}{\partial x \partial y} = \frac{\partial}{\partial x} \left(\frac{\partial w}{\partial y} \right) = \frac{\partial}{\partial x} \left(\frac{\partial}{\partial y} \left(\frac{\partial x^4 e^{\gamma} + y \cos \infty}{\partial x} \right) \right)$$

=
$$\frac{\partial}{\partial x}$$
 (- $x^3 = x^3 = x^2 = x^3 =$

$$\frac{\partial^2 \omega}{\partial y \partial x} = \frac{\partial}{\partial y} \left(\frac{\partial \omega}{\partial x} \right) = \frac{\partial}{\partial y} \left(\frac{\partial}{\partial x} \left(\frac{\partial^2 \cos(xy)}{\partial y} \right) \right)$$

=
$$-3x^2$$
 sem $(xy) - x^2$ sem $(xy) = x^3y$ cos (xy)
= $-3x^2$ sem $(xy) = x^3y$ cos (xy)

3.
$$\frac{\partial^2 f}{\partial x^2} = \frac{\partial^2 f}{\partial x^2} = \frac{\partial^2 f}{\partial x^2} + \frac{\partial^2 f}{\partial x^2} + \frac{\partial^2 f}{\partial x^2} = \frac{\partial^2 f}{\partial x^2} + \frac{\partial^2 f}{\partial x^2} = \frac{\partial^2 f}{\partial x^2} + \frac{\partial^2 f}{\partial x^2} = \frac{\partial^2 f}{\partial x^2} + \frac{\partial^2 f}{\partial x^2} + \frac{\partial^2 f}{\partial x^2} = \frac{\partial^2 f}{\partial x^2} + \frac{\partial^2 f$$

$$\frac{\partial z}{\partial x} = \frac{\partial z}{\partial u} \cdot \frac{\partial u}{\partial z} + \frac{\partial z}{\partial u} \cdot \frac{\partial u}{\partial u}$$

$$= \frac{\partial u}{\partial u} \cdot \frac{\partial z}{\partial u} \cdot \frac{\partial z}{\partial u} \cdot \frac{\partial z}{\partial u} \cdot \frac{\partial u}{\partial u} \cdot \frac{\partial u}{\partial u}$$

$$= \frac{\partial u}{\partial u} \cdot \frac{\partial z}{\partial u} \cdot \frac{\partial z}{\partial u} \cdot \frac{\partial z}{\partial u} \cdot \frac{\partial u}{\partial u} \cdot \frac{\partial u}{\partial u}$$

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$$= \frac{\partial u}{\partial u} \cdot \frac{\partial z}{\partial u} \cdot \frac{\partial u}{\partial u} \cdot \frac{\partial u}{\partial u} \cdot \frac{\partial u}{\partial u} \cdot \frac{\partial u}{\partial u}$$

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