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$$D = \begin{vmatrix} \frac{\partial x_1}{\partial x} & \frac{\partial x_1}{\partial y} & \frac{\partial x_1}{\partial t} \\ \frac{\partial x_2}{\partial x} & \frac{\partial x_2}{\partial y} & \frac{\partial x_2}{\partial t} \\ \frac{\partial x_3}{\partial x} & \frac{\partial x_3}{\partial y} & \frac{\partial x_3}{\partial t} \end{vmatrix} = 0,$$

$$D = \begin{vmatrix} \frac{\partial x_1}{\partial x} & \frac{\partial x_1}{\partial y} \\ \frac{\partial x_2}{\partial x} & \frac{\partial x_2}{\partial y} \end{vmatrix} \frac{\partial x_3}{\partial t} + \begin{vmatrix} \frac{\partial x_1}{\partial x} & \frac{\partial x_1}{\partial y} \\ \frac{\partial x_3}{\partial x} & \frac{\partial x_3}{\partial y} \end{vmatrix} \frac{\partial x_2}{\partial t} + \begin{vmatrix} \frac{\partial x_2}{\partial x} & \frac{\partial x_2}{\partial y} \\ \frac{\partial x_3}{\partial x} & \frac{\partial x_3}{\partial y} \end{vmatrix} \frac{\partial x_1}{\partial t} = 0$$

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