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A fluid particle that follows the lines

$$= 1 \text{ or } = 2$$

will have its density remain fixed at $=$

$$1 \text{ or } = 2 \text{ so}$$

that $D / Dt = 0$.

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$$y = 2 = 1$$

x FIGURE 1.3 Flow of density-stratified fluid in which

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$D/Dt = 0$ but for
which $\frac{dx}{dt} = 0$
and $\frac{dy}{dt} = 0$.

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Problem 1.9 For a
Newtonian fluid, the
dissipation function
is defined by the

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following equation:

$$\frac{1}{2} \rho \left(\frac{d}{dt} \int_V \mathbf{u} \cdot \mathbf{u} \, dV + \int_V \mathbf{u} \cdot \nabla \mathbf{u} \, dV \right)$$

Evaluating

the various terms in

this equation for the

Cartesian

coordinates $(x, y,$

$z)$ and the

Cartesian velocity

components $(u, v,$

$w)$, yields the

following value for :

$$\frac{1}{2} \rho \left(\frac{d}{dt} \int_V (u^2 + v^2 + w^2) \, dV + \int_V (u \frac{\partial u}{\partial x} + v \frac{\partial v}{\partial y} + w \frac{\partial w}{\partial z}) \, dV \right)$$

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For a monotonic
gas, the Stokes
relation requires
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approximations to
the exact solution
by eliminating

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contributions to the
solution using scale
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