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thermodynamics takes the following form:
$$\frac{DE_{t}}{Dt} = \frac{DW}{Dt} + \frac{DQ}{Dt} \rightarrow \frac{DE_{t}}{Dt} = \nabla \cdot (\boldsymbol{\sigma} \cdot \mathbf{v}) - \nabla \cdot \{\mathbf{q}\}$$

First law of thermodynamics (fluid mechanics) - Wikipedia

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THERMODYNAMICS AND FLUID
MECHANICS REFERRED WORK 2014
NAME: DATE: Question 1 Water at 50
degrees Celsius flows at a mass flow
rate of 20 kg/s in a 200 mm diameter
pipeline. a) Find the density and
dynamic viscosity of the water at this
temperature let be the dynamic ...

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ethylene glycol (the primary ingredient
in

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