$$\rho\left(\frac{\partial \mathbf{v}}{\partial t} + \mathbf{v}\cdot\nabla\mathbf{v}\right) = -\nabla p + \nabla\cdot\mathbf{T} + \mathbf{f} \tag{1}$$

$$\rho\left(\frac{\partial \mathbf{v}}{\partial t} + \mathbf{v}\cdot\nabla\mathbf{v}\right) = -\nabla p + \nabla\cdot\mathbf{T} + \mathbf{f}\rho\left(\frac{\partial \mathbf{v}}{\partial t} + \mathbf{v}\cdot\nabla\mathbf{v}\right) \tag{2}$$

$$\rho\left(\frac{\partial \mathbf{v}}{\partial t} + \mathbf{v} + \nabla\mathbf{v}\right) = \nabla p + \nabla\cdot\mathbf{T} + \mathbf{f}.$$

$$\rho\left(\frac{\partial \mathbf{v}}{\partial t} + \mathbf{v} + \nabla\mathbf{v}\right) = \nabla p + \nabla\cdot\mathbf{T} + \mathbf{f}.$$