

For the flow around a sphere,
estimate

$$\rho(\underline{v} \cdot \nabla) \underline{v} \quad \text{and} \quad \mu \nabla^2 \underline{v}$$

for $r \rightarrow \infty$. Which of these is
true?

a) $|\rho(\underline{v} \cdot \nabla) \underline{v}| \ll |\mu \nabla^2 \underline{v}|$

b) $|\rho(\underline{v} \cdot \nabla) \underline{v}| \sim |\mu \nabla^2 \underline{v}|$

c) $|\rho(\underline{v} \cdot \nabla) \underline{v}| \gg |\mu \nabla^2 \underline{v}|$?