If the drag on one side of a flat plate parallel to the upstream flow is 9 when the upstream velocity is U, what will the drag be when the upstream velocity is 2U; or U/2? Assume laminar flow.

For laminar flow $\mathcal{D} = \frac{1}{2} \rho U^2 C_{Df} A$, where $C_{Df} = \frac{1.328}{\sqrt{Ul}}$ $\mathcal{D} = \frac{1}{2} \rho U^2 \frac{1.328 \sqrt{V}}{\sqrt{U I}} A = 0.664 \rho A \frac{1 V}{V I} U^{3/2} \sim U^{3/2}$