Consider a flow of air over a flat plate (10 cm long in the flow direction, and 1 m wide). The freestream conditions correspond to standard sea-level, and the flow velocity is 200 m/s. Determine the boundary layer thickness at the trailing edge of the plate and the drag force due to skin friction developed at the plate for the case of (a) laminar and (b) turbulent flow.

Hints . . .
• Apply flat plate laminar and turbulent flow solutions.