0.1 Exercise 2 - Fluid tutorial group B

A viscous fluid of constant density, ρ , and kinematic viscosity, ν , flows over a flat plate inclined at an angle α and moving with a constant velocity V_w . The flow is stationary and no pressure gradients are applied. The only body force acting on the fluid is due to gravity, g. You can assume zero velocity component in the direction orthogonal to the plate and negligible air resistance at the interface between the viscous fluid and air (y = h).