## Flow near a plate suddenly set in motion

## Stokes' first problem

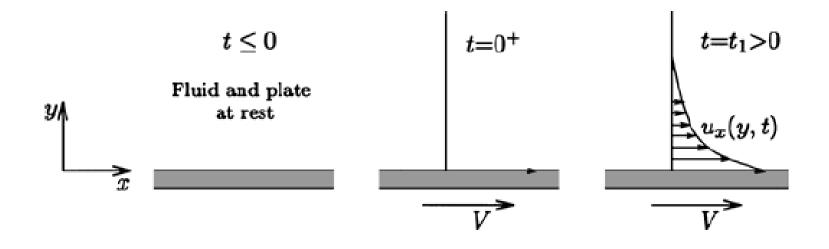
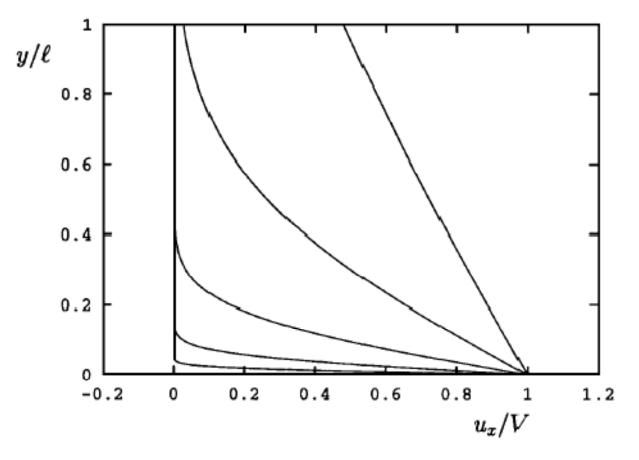


Figure: Flow near a plate suddenly set in motion.

## Flow near a plate suddenly set in motion



**Figure:** Transient flow due to the sudden motion of a plate. Velocity profiles at vt/l<sup>2</sup>=0.0001, 0.001, 0.01, 0.1 and 1, where l is an arbitrary length scale.