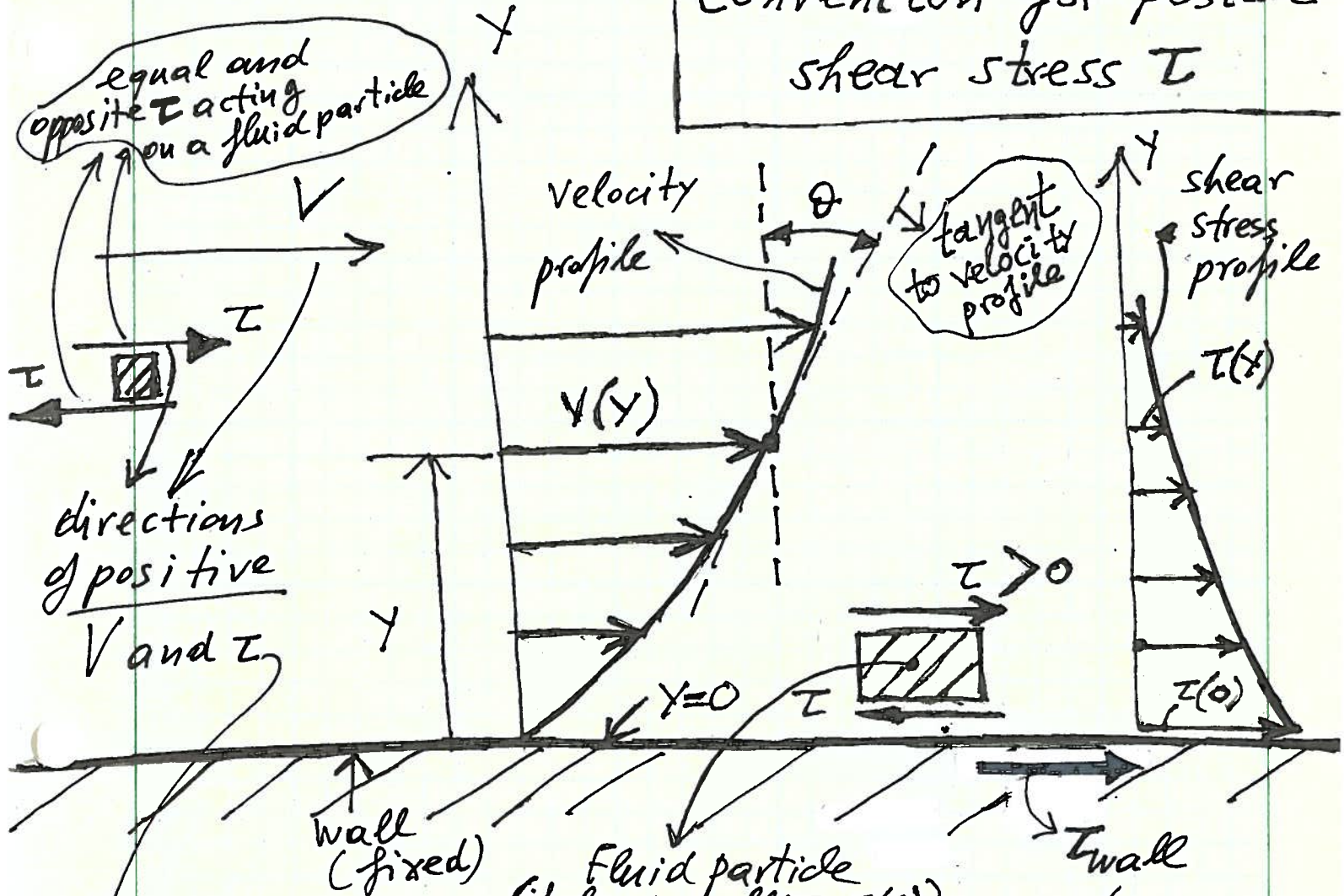


Convention for positive shear stress τ



- $\frac{dv}{dy} = \tan \theta$

- $\tau = \mu \frac{dv}{dy}$

For τ to be positive the direction of shear stress on the top side of the fluid particle has to be positive

equal (in magnitude & direction for this case) to $\tau(0)$, due to the principle of action/reaction (Note: τ_{wall} is the reaction of the shear stress acting on the lower side of a particle that is in contact with the wall)