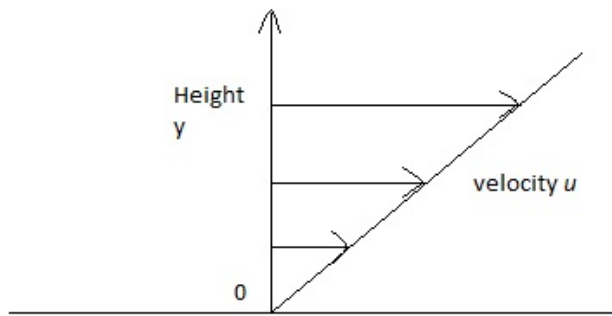


The no-slip condition is: An experimental observation that the velocity of a fluid in contact with a solid surface is equal to the velocity of the surface

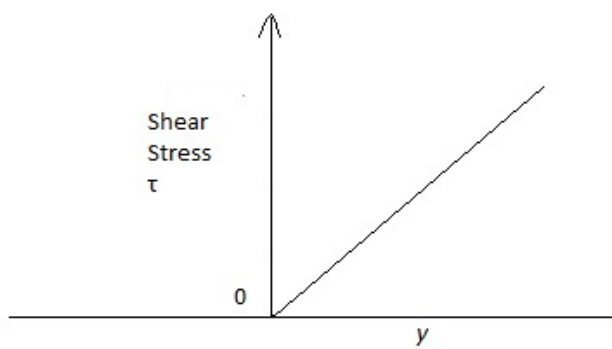
In fluids, the shearing strain rate du/dy for a Newtonian fluid has dimensions of: $1/T$

The laminar velocity profile for a Newtonian fluid is shown below



Which figure best describes the variation of shear stress with distance from plate?

A:



For a fluid element at rest, the forces acting on the element are: gravity and normal forces

A tank is filled with liquid, and the surface is exposed to the atmosphere. Which of the following accurately represents the absolute pressure distribution on the right-hand side of the tank?

A:

