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In the figure shown at the right, the fluid is glycerin at 20°C (μ = 1.5 N·s/m²), the width between plates is L = 6 mm and the velocity of upper plate is V=5.5 m/s. What is shear stress (in Pa) on the upper plate? The fluid velocity profile between the plates is given as

$$u(y) = \frac{V}{L} \cdot y$$

