a) (v)
$$= \left(\frac{\mu}{\rho}\right) = \frac{(M)}{(L)(\rho)} \frac{(L^2)}{(M)} = \frac{(L^2)}{(\rho)}$$

$$\mu = 2.11 \times 10^{-5} \frac{lb \sec}{ft^2}$$

$$v = \frac{2.11 \times 10^{-5} \frac{lb \sec c}{\hbar^2}}{1.94 \frac{slugs}{\hbar^3}}$$

$$= \frac{(2.11\times10^{-5}) \frac{lb \sec}{ft^2}}{1.94 \frac{slugs}{ft^3} \left(\frac{lb(ft/sec^2)}{1 slug}\right)}$$

$$1 \text{ stoke} = \frac{1 \text{ cm}^2}{\text{sec}} = \frac{1(.01\text{m})^2}{\text{sec}}$$

$$= \frac{\left[.01m \left(\frac{3.28 \ ft}{1 \ m}\right)\right]^2}{\sec}$$

010113 stokes

. For water

1.12
$$V = \frac{B}{Av} \left(\frac{D^2}{A} - r^2 \right)$$

$$\tau_w = \mu \left(\frac{\partial V}{\partial r} \right)_{r=\frac{D}{2}} = \mu \frac{\beta}{4\mu} \left(-2r \right) \Big|_{r=\frac{D}{2}}$$

a)
$$\tau_{\nu} = -\frac{\beta D}{4}$$

$$r = \frac{D}{4}$$

$$\tau = \frac{\beta}{4} \left(-2 \frac{D}{4} \right) = -\frac{\beta D}{8}$$

$$Drag = \tau_{\varphi}(\pi)(D)(L)$$

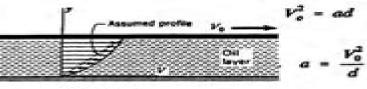
$$= \frac{\beta D}{4} (\pi)(D)(L)$$

$$= \beta D^2 \pi L$$

A large place come with speed V₁ over a section on place on a large of all. If the relative points is the all a the place of all the place o

$$V^2 = ay$$

When y = d, $V = V_o$. Hence:



$$V^2 = V_0^2 \left(\frac{y}{d} \right) : V = V_0 \sqrt{\frac{y}{d}}$$

$$\tau_w = \mu \left(\frac{\partial V}{\partial y} \right)_{y=d} = \mu V_o \frac{1}{\sqrt{d}} \frac{1}{2} (y^{-1/2})_{y=d}$$

$$(\tau)_a = \frac{\mu V_a}{2d}$$

b) For a linear profile:

$$(\tau \downarrow)_b = \mu \left(\frac{V_o}{d}\right)$$

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