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Hence, the solution will be:  $1 - 2 \left( \frac{z}{b} \right) \left[ 1 - \left( \frac{z}{b} \right)^2 \right] \sin \frac{n \pi z}{b}$   $n \pi y$   $u = \frac{2 U_e}{n \pi b} \left[ 1 - \left( \frac{z}{b} \right)^2 \right] \sin \frac{n \pi z}{b}$   
The volumetric flow rate  $Q$  may be evaluated by integrating the velocity to give:  $Q = \int_0^b u dz = \frac{2 U_e}{n \pi b} \int_0^b \left[ 1 - \left( \frac{z}{b} \right)^2 \right] \sin \frac{n \pi z}{b} dz$   
Thus the volumetric flow rate past any vertical plane across the flow will be:  $Q = \frac{2 U_e b}{n \pi} \left[ \frac{1}{b} \int_0^b \left( 1 - \left( \frac{z}{b} \right)^2 \right) \sin \frac{n \pi z}{b} dz \right]$  Problem 7.9 (a)  
 $\frac{1}{b} \int_0^b \left( 1 - \left( \frac{z}{b} \right)^2 \right) \sin \frac{n \pi z}{b} dz = \frac{1}{n \pi} \left[ \frac{1}{b} \int_0^b \sin \frac{n \pi z}{b} dz - \frac{1}{b^3} \int_0^b z^2 \sin \frac{n \pi z}{b} dz \right]$   
Fluid #1:  $\frac{1}{n \pi} \left[ \frac{1}{b} \left( -\frac{b}{n \pi} \cos \frac{n \pi z}{b} \right) \Big|_0^b - \frac{1}{b^3} \left( -\frac{z^2}{n \pi} \cos \frac{n \pi z}{b} + \frac{2z}{n \pi} \sin \frac{n \pi z}{b} - \frac{2}{n^3 \pi^3} \cos \frac{n \pi z}{b} \right) \Big|_0^b \right]$   
Fluid #2:  $\frac{2 U_e b}{n \pi} \left[ \frac{1}{b} \left( -\frac{b}{n \pi} \cos \frac{n \pi z}{b} \right) \Big|_0^b - \frac{1}{b^3} \left( -\frac{z^2}{n \pi} \cos \frac{n \pi z}{b} + \frac{2z}{n \pi} \sin \frac{n \pi z}{b} - \frac{2}{n^3 \pi^3} \cos \frac{n \pi z}{b} \right) \Big|_0^b \right]$  ...

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which deform without limit under the influence of shearing  
forces. Even a very small shear-ing force will deform a fluid  
body, but the velocity of the deformation will be  
correspondingly small. This property serves as the

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