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Hence, the solution will be:  $1 - 2 \left( \frac{y}{b} \right)^2 \left[ 1 - \left( \frac{z}{b} \right)^2 \right] \sin \frac{n\pi z}{b}$  The volumetric flow rate  $Q$  may be evaluated by integrating the velocity to give:  $Q = \int_0^b \int_0^b U_e \, dz \, dy = \int_0^b \left[ \int_0^b U_e \, dz \right] dy = \int_0^b \left[ \int_0^b \left( 1 - 2 \left( \frac{y}{b} \right)^2 \left[ 1 - \left( \frac{z}{b} \right)^2 \right] \sin \frac{n\pi z}{b} \right) dz \right] dy = \int_0^b \left[ \left( 1 - 2 \left( \frac{y}{b} \right)^2 \right) \left( \frac{2b}{n\pi} \right) \left( 1 - \frac{1}{3} \right) \sin \frac{n\pi z}{b} \right] dy = \left( \frac{2b}{n\pi} \right) \left( \frac{2}{3} \right) \left( 1 - 2 \left( \frac{y}{b} \right)^2 \right) \sin \frac{n\pi z}{b} \Big|_0^b = \left( \frac{2b}{n\pi} \right) \left( \frac{2}{3} \right) \left( 1 - 2 \left( \frac{y}{b} \right)^2 \right) \left( \sin \frac{n\pi b}{b} - \sin \frac{n\pi 0}{b} \right) = \left( \frac{2b}{n\pi} \right) \left( \frac{2}{3} \right) \left( 1 - 2 \left( \frac{y}{b} \right)^2 \right) \left( \sin n\pi - \sin 0 \right) = \left( \frac{2b}{n\pi} \right) \left( \frac{2}{3} \right) \left( 1 - 2 \left( \frac{y}{b} \right)^2 \right) \left( 0 - 0 \right) = 0$  Thus the volumetric flow rate past any vertical plane across the flow will be:  $Q = \int_0^b \left[ \int_0^b U_e \, dz \right] dy = \int_0^b \left[ \int_0^b \left( 1 - 2 \left( \frac{y}{b} \right)^2 \left[ 1 - \left( \frac{z}{b} \right)^2 \right] \sin \frac{n\pi z}{b} \right) dz \right] dy = \int_0^b \left[ \left( 1 - 2 \left( \frac{y}{b} \right)^2 \right) \left( \frac{2b}{n\pi} \right) \left( 1 - \frac{1}{3} \right) \sin \frac{n\pi z}{b} \right] dy = \left( \frac{2b}{n\pi} \right) \left( \frac{2}{3} \right) \left( 1 - 2 \left( \frac{y}{b} \right)^2 \right) \sin \frac{n\pi z}{b} \Big|_0^b = \left( \frac{2b}{n\pi} \right) \left( \frac{2}{3} \right) \left( 1 - 2 \left( \frac{y}{b} \right)^2 \right) \left( \sin \frac{n\pi b}{b} - \sin \frac{n\pi 0}{b} \right) = \left( \frac{2b}{n\pi} \right) \left( \frac{2}{3} \right) \left( 1 - 2 \left( \frac{y}{b} \right)^2 \right) \left( \sin n\pi - \sin 0 \right) = \left( \frac{2b}{n\pi} \right) \left( \frac{2}{3} \right) \left( 1 - 2 \left( \frac{y}{b} \right)^2 \right) \left( 0 - 0 \right) = 0$

Problem 7.9 (a)  $\frac{1}{R} \frac{dw}{dR} = \frac{dp}{R} \frac{dR}{dz}$  Fluid #1:  $\frac{1}{R} \frac{dw}{dR} = \frac{dp}{R} \frac{dR}{dz}$  Fluid #2:  $\frac{1}{R} \frac{dw}{dR} = \frac{dp}{R} \frac{dR}{dz}$  ...

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Analysis Knowing the weight, the mass and the density of the fluid are determined to be  $3225 \text{ N}$   $1 \text{ kg/m}^3$   $9.80 \text{ m/s}^2$   $1 \text{ N/W}$   $m/g$   $???$   $?$   $==$   $=??$   $??$   $???$   $?$   $23.0 \text{ kg}$   $23.0 \text{ kg}$   $24 \text{ L}$   $m$   $?==$   $=0.957 \text{ kg/L}$   $V$  Discussion Note that mass is an intrinsic property, but weight is not. 2-11E Solution An automobile tire is under-inflated with air. The amount of air that needs to be added to the tire to raise its

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