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EXACT SOLUTIONS Page 7-6

(a)  $u = \frac{1}{2} \left( \frac{x^2}{2} + \frac{y^2}{2} + 8y \right)$  and  $v = 8x$   
Hence the differential equation is satisfied provided  $A = P$  so that a solution is:  $u = \frac{1}{2} \left( \frac{x^2}{2} + \frac{y^2}{2} + 8y \right) + P y$

(b)  $u = \frac{1}{2} \sinh \left( \frac{x}{n} \right) \sin \sinh \frac{y}{n} + z u y z B n y n$   
 $2 \frac{2}{2} 2 \frac{2}{2} 2$  and  $v = \frac{1}{2} \sinh \left( \frac{x}{n} \right) \cos \sinh \frac{y}{n} + z u y z B n y n$

(c)  $u = \frac{1}{2} \sinh \left( \frac{x}{n} \right) \left( \frac{y}{n} \right) \sin \sinh \frac{y}{n} + z u y z C n y n$   
 $2 \frac{2}{2} 3 \frac{3}{2} 2 \frac{2}{2} 3 \frac{3}{2} 2$  and  $v = \frac{1}{2} \sinh \left( \frac{x}{n} \right) \left( \frac{y}{n} \right) \sin \sinh \frac{y}{n} + z u y z C n y n$

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A fluid particle that follows the lines  $\rho = \rho_1$  or  $\rho = \rho_2$  will have its density remain fixed at  $\rho = \rho_1$  or  $\rho = \rho_2$  so that  $D\rho/Dt = 0$ . f14 Fundamental Mechanics of Fluids  $y = y_2$   
 $y = y_1$  x FIGURE 1.3 Flow of density-stratified fluid in which  $D\rho/Dt = 0$  but for which  $\partial\rho/\partial x \neq 0$  and  $\partial\rho/\partial y \neq 0$

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