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8 Solutions Manual • Fluid Mechanics, Fifth Edition. In order for  $f_{cn}(H)$  to provide dimensions of  $\{L^{3/2}\}$ , the function must be a  $3/2$  power. Thus the final desired homogeneous relation for dam flow is:  $Q = CBg^{1/2}H^{3/2}$ , where  $C$  is a dimensionless constant Ans.

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 $13400 = 791(9.81) h$  Solve for

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Note: Unit cancellations are not shown in this solution. a.) Situation: Pressure varies with elevation.  $z = 6:8\text{ft}$ . Find: Pressure change (kPa). Properties:  $\rho = 90 \text{ lbm/ft}^3$ . Solution: Convert density to units of  $\text{kg/m}^3$ :  $\rho = 90 \text{ lbm/ft}^3 \cdot \frac{1 \text{ kg}}{2.2046 \text{ lbm}} \cdot \frac{3 \text{ ft}}{1 \text{ m}} = 1442 \text{ kg/m}^3$  Calculate the pressure change:  $p = \rho g z = 1442 \text{ kg/m}^3 \cdot 9.81 \text{ m/s}^2 \cdot 6:8 \text{ ft} \cdot \frac{1 \text{ m}}{3 \text{ ft}} \dots$

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