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Fluid Mechanics Problems For Qualifying Exam 1. When An Incompressible Jet Strikes An Inclined fixed Plate At Speed  $V_j$ , As Shown Below, It Breaks Into Two Jets At 2 And 3 Of Equal Velocity  $V = V_j$  But Unequal fluxes  $\alpha Q$  At Section 2 And  $(1 - \alpha)Q$  At Section 3,  $\alpha$  Being A Fraction And  $Q$  Being The Total Volume flowrate. 4th, 2024

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