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Resultant force on submerged curved surfaces
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Assumptions
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Pathlines and Lagrangian Approach
Streaklines
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The Equation of a Pathline
Example Explanation
Solving for the Streamline Equation
Solving for the Pathline Equation
Parametric Equations
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U-Tube Problems
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Variation of Pressure in Horizontally Accelerating Fluid
Shape of Liquid Surface Due to Horizontal Acceleration
Barometer
Pascal's Law
Upthrust
Archimedes Principle
Apparent Weight of Body
BREAK 2
Condition for Floatation & Sinking
Law of Floatation
Fluid Dynamics
Reynold's Number
Equation of Continuity
Bernoullis's Principle
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Problem 23
Problem 24
Problem Statement
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Example: Streamline equation
Example: Streaklines, pathlines, and streamlines
Acceleration and velocity fields
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