

Problem 2

The magnitude of the component of a velocity at a point equal to of a stream function is $\textcircled{1} 2$ $\textcircled{2} 2\sqrt{2}$ $\textcircled{3} 4$ $\textcircled{4} 4\sqrt{2}$.
The co-ordinate of the point is (1, 1).

Solution

For stream function $\psi = x^2 - y^2$ $\frac{\partial \psi}{\partial x} = V$, $\frac{\partial \psi}{\partial y} = -U$



$\frac{\partial \psi}{\partial x} = \frac{\partial (x^2 - y^2)}{\partial x} = 2x = V$

$V = 2x$

$\frac{\partial \psi}{\partial y} = \frac{\partial (x^2 - y^2)}{\partial y} = -2y = -U$

$U = 2y$

$V = \sqrt{U^2 + V^2}$

$= \sqrt{(2y)^2 + (2x)^2}$

$= \sqrt{4y^2 + 4x^2}$

$= \sqrt{4(1)^2 + 4(1)^2}$

$= \sqrt{4 + 4}$

$V = \sqrt{8}$

$V = \sqrt{2 \times 2 \times 2}$

$V = 2\sqrt{2}$

$[x=1, y=1]$

Problem 3

which of the following has the possible fluid flow
 $\textcircled{1} U=x, V=y$ $\textcircled{2} U=x^2, V=y^2$ $\textcircled{3} U=xy, V=x^2y^2$ $\textcircled{4} U=x, V=y$

Solution

Fluid flow is only possible when it satisfies continuity
i.e. $\frac{\partial U}{\partial x} + \frac{\partial V}{\partial y} = 0$

Taking option 4

$\frac{\partial U}{\partial x} = \frac{\partial (x)}{\partial x} = +1$

$\frac{\partial V}{\partial y} = \frac{\partial (-y)}{\partial y} = -1$

$\frac{\partial U}{\partial x} + \frac{\partial V}{\partial y} = +1 + (-1) = 1 - 1 = 0$

Mechanics Problems And Solutions Physics

Lauren Gardner



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