

Problem 2

The magnitude of the component of a velocity at a point equal to of a stream function is (i) 2 (ii) $2\sqrt{2}$ (iii) 4 (iv) $4\sqrt{2}$.
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

- (i) $u = x, v = y$ (ii) $u = x^2, v = y^2$ (iii) $u = xy, v = x^2y^2$ (iv) $u = +x$

Solution

Fluid flow is only possible when it satisfy continuity
i.e. $\frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} = 0$

• Taking option (i)

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

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

$\frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} = +1 + (-1) = 1 - 1 = 0$

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