What must be true about the difference $\psi_u - \psi_1$ at the two surface points at the trailing edge of a lifting airfoil?

1. $\psi_u - \psi_1 < 0$
2. $\psi_u - \psi_1 = 0$
3. $\psi_u - \psi_1 > 0$
4. No way to know for sure from given information
What must be true about the difference $\phi_u - \phi_l$ at the two surface points at the trailing edge of a lifting airfoil?

1. $\phi_u - \phi_l < 0$
2. $\phi_u - \phi_l = 0$
3. $\phi_u - \phi_l > 0$
4. No way to know for sure from given information
If $D\xi/Dt = 0$ in a steady inviscid flow, what must be strictly true about the $\xi(x, y)$ field?

1. $\xi = 0$ everywhere
2. $\dot{\xi} = 0$ along any streamline
3. $\xi = \text{const.}$ everywhere
4. $\dot{\xi} = \text{const.}$ along any streamline
A source of strength $\Lambda$ is in a uniform flow $V_\infty$. What is the spacing height $h$ of the dividing streamlines infinitely far downstream?

1. $h = 0$
2. $h = \Lambda / V_\infty$
3. $h = 2\Lambda / V_\infty$
4. $h = \infty$
5. Cannot be determined from given information