

Pressure at the surface = Atmospheric pressure

$$\Rightarrow -\mathcal{C}_{w}(\phi(z+\Delta z) - \phi(z)) = \frac{1}{2}\mathcal{C}_{w}(\sqrt{2} - (v+\Delta v)^{2})$$

$$\Rightarrow -9 \quad 5 \quad = \frac{1}{2}(\sqrt{2} - \sqrt{2} - 2v\Delta v - \Delta v^{2})$$

$$= > \quad \boxed{2}v\Delta v = 95 \quad \boxed{2}$$

$$(1) \quad \Delta v = \frac{5}{4}v$$

$$= > \quad \boxed{2}v^{2}b = 9b$$

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