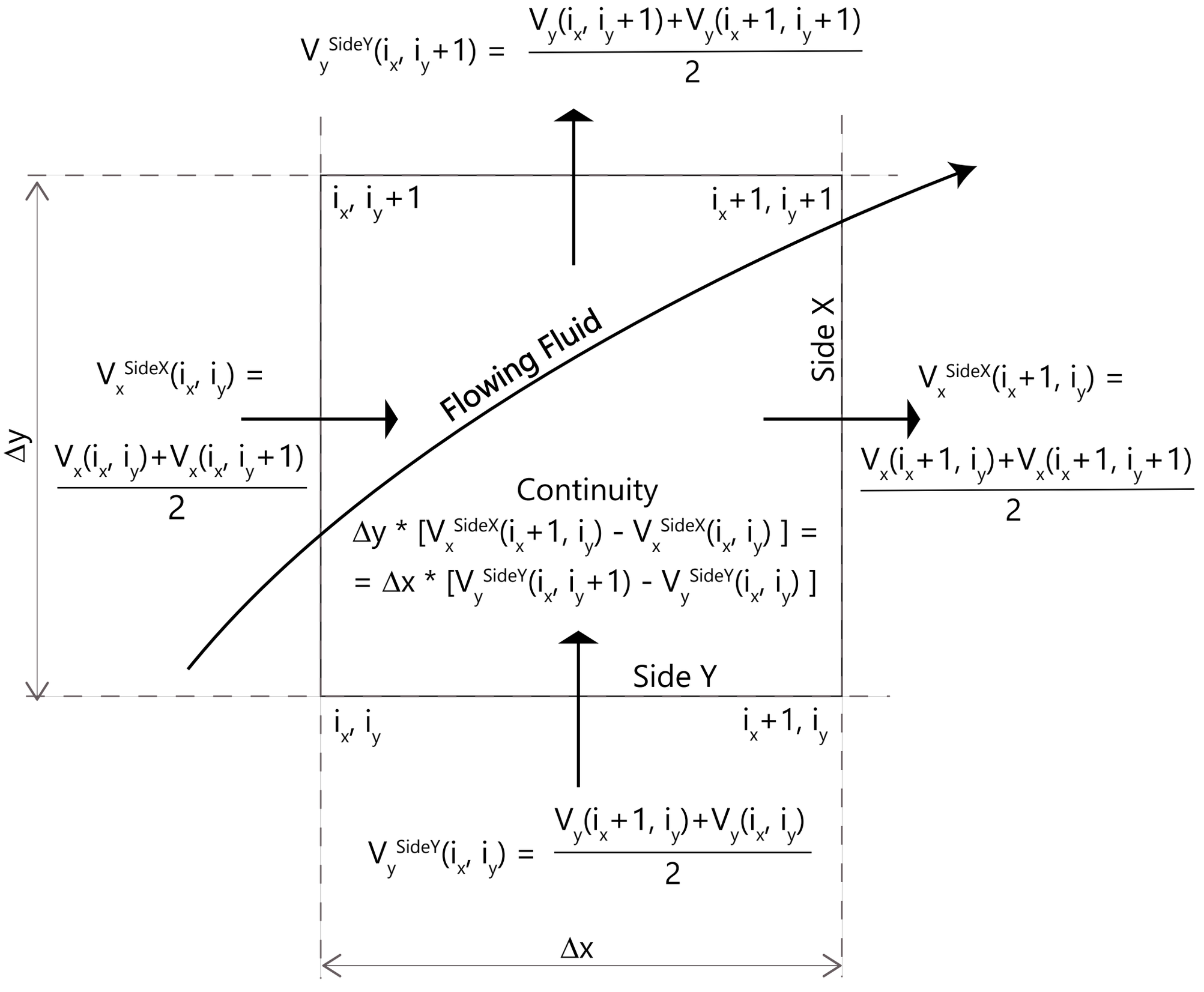
$V_y^{SideY}(i_x, i_y+1) = \frac{V_y(i_x, i_y+1)+V_y(i_x+1, i_y+1)}{2}$
i_x, i_y+1
i_x+1, i_y+1
Side X
Flowing Fluid
$V_x^{SideX}(i_x, i_y) =$
$\frac{V_x(i_x, i_y)+V_x(i_x, i_y+1)}{2}$
$V_x^{SideX}(i_x+1, i_y) =$
$\frac{V_x(i_x+1, i_y)+V_x(i_x+1, i_y+1)}{2}$
Δy
Continuity
$\Delta y * [V_x^{SideX}(i_x+1, i_y) - V_x^{SideX}(i_x, i_y)] =$
$= \Delta x * [V_y^{SideY}(i_x, i_y+1) - V_y^{SideY}(i_x, i_y)]$
Side Y
i_x, i_y
i_x+1, i_y
$V_y^{SideY}(i_x, i_y) = \frac{V_y(i_x+1, i_y)+V_y(i_x, i_y)}{2}$
Δx