

Ground speed $v_g = |\vec{a}|$

Wind speed $v_w = |\vec{w}|$

Windsupport $w_s = |\vec{w}_s| = \|\vec{w}\| \cdot \sin(\omega)$

Crosswind $w_c = |\vec{w}_c| = \|\vec{w}\| \cdot \cos(\omega)$

Air speed $v_a = |\vec{b}| = \sqrt{(v_g - w_s)^2 + (w_c)^2}$

