(a)

$U_H = U_x + U_y$

$k_H = k_x + ky$

β

$26.57°$

$\alpha = 46.1°$

(b)

$U_H = Ux + U_y$

$k_H = k_x + k_y$

β

$86.6°$

$\alpha = 24.20°$