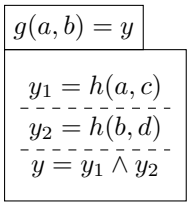
$g(a,b) = y$
$y_1 = h(a,c)$
$y_2 = h(b,d)$
$y = y_1 \wedge y_2$