

$$W_A = a_1^1 b_1^1 + a_2^1 b_1^1 + a_1^2 b_2^1 + a_2^2 b_2^1 + a_1^1 b_1^2 + a_2^1 b_1^2 + a_1^2 b_2^2 + a_2^2 b_2^2$$

$$W_V = a_1^1 b_1^1 + a_2^1 b_1^1 + a_1^2 b_2^1 + a_2^2 b_2^1 - a_1^1 b_1^2 - a_2^1 b_1^2 - a_1^2 b_2^2 - a_2^2 b_2^2$$

$$W_H = a_1^1 b_1^1 - a_2^1 b_1^1 + a_1^2 b_2^1 - a_2^2 b_2^1 + a_1^1 b_1^2 - a_2^1 b_1^2 + a_1^2 b_2^2 - a_2^2 b_2^2$$

$$W_D = a_1^1 b_1^1 - a_2^1 b_1^1 + a_1^2 b_2^1 - a_2^2 b_2^1 - a_1^1 b_1^2 + a_2^1 b_1^2 - a_1^2 b_2^2 + a_2^2 b_2^2$$