$$A = (a_0; a_1; a_2; a_3).$$

$$A = (a_0; a_1; a_2; a_3).$$

$$A = (b_0; b_1; b_2; b_3).$$

$$A + B = (a_0 + b_0; a_1 + b_1; a_2 + b_2; a_3 + b_3)$$

$$C = \begin{pmatrix} c_0 \\ c_1 \\ c_2 \\ c_3 \end{pmatrix}$$

$$A \cdot B = (a_0 + b_0; a_1 + b_1; a_2 + b_2; a_3 + b_3)$$

$$A \cdot C = \begin{pmatrix} a_0 + b_0; a_1 + b_1; a_2 + b_2; a_3 + b_4; a_3$$

$$(1;5) \times (2;3) = 1-2+5-3 = 42.$$

$$= 1 \cdot (8 \cdot 3 - 7 \cdot 5) - 5(2 \cdot 3 - 7 \cdot 7) +$$

$$+ 0 = 24 - 105 + 25 = 2285$$