$$a_{11}\psi_1 + a_{22}\psi_2 + a_{33}\psi_3 + a_{44}\psi_4 + \sum_{1 \le j < k \le 4} \psi_j \psi_k [A]_{j,k} + \psi_1 \psi_2 \psi_3 [A]_{1,2,3} + \psi_1 \psi_2 \psi_4 [A]_{1,2,4} + \psi_1 \psi_3 \psi_4 [A]_{1,3,4} + \psi_2 \psi_3 \psi_4 [A$$