Solution (#753) A basis is (3, 2, 1, 0), (-2, -1, 0, 1) and (4, 3, 2, 1) = 2(3, 2, 1, 0) + 1(-2, -1, 0, 1)

so that (4,3,2,1) has co-ordinates (2,1) with respect to the given basis.