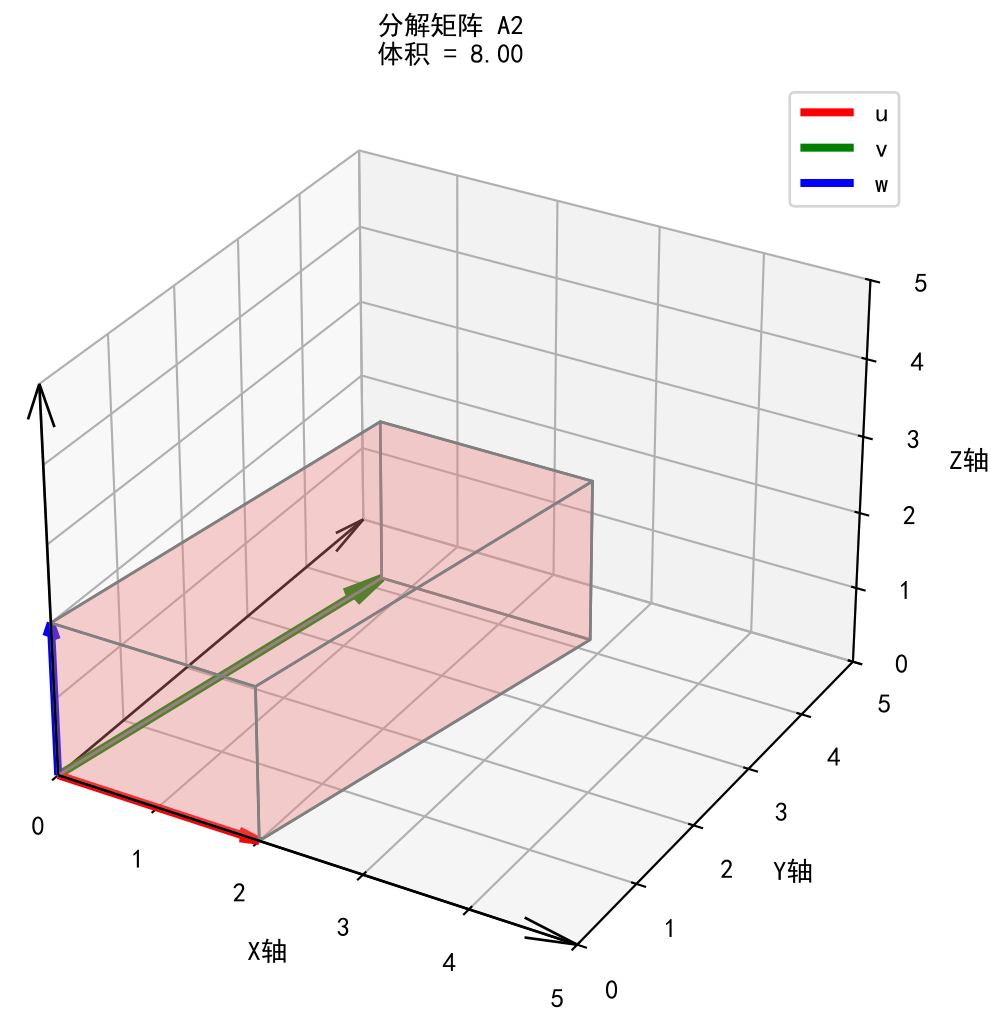
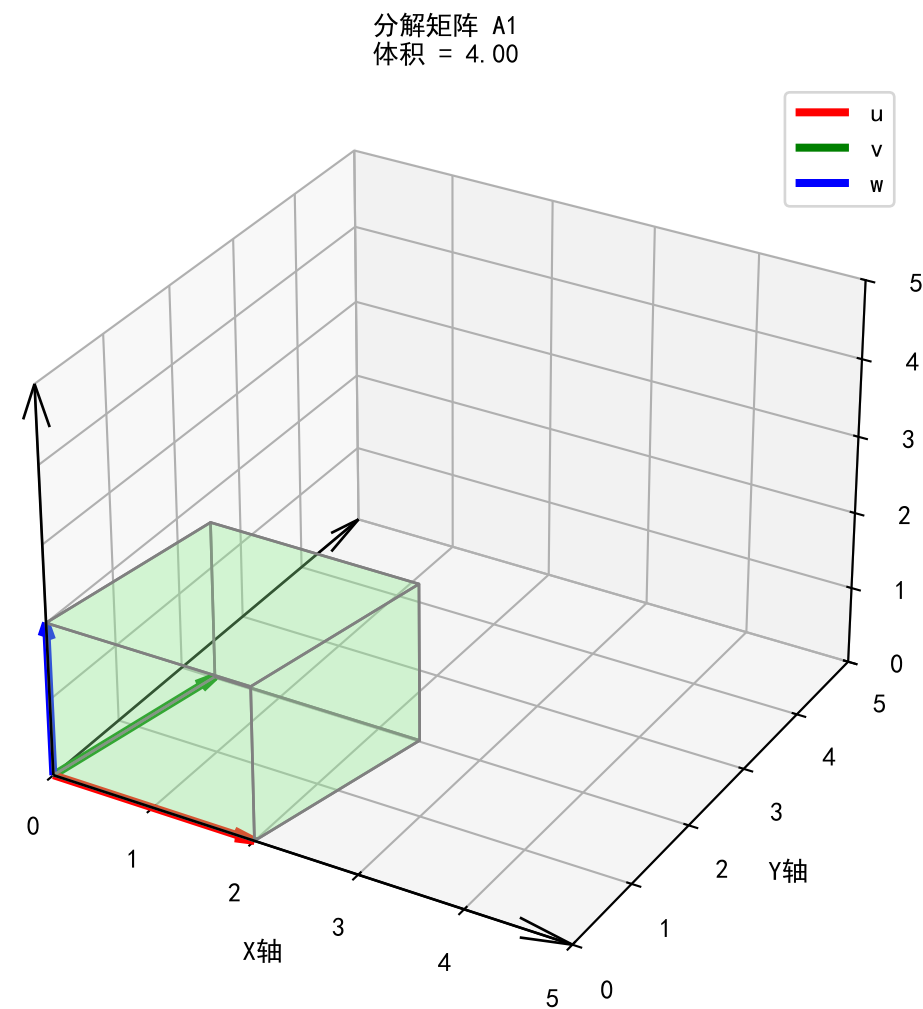
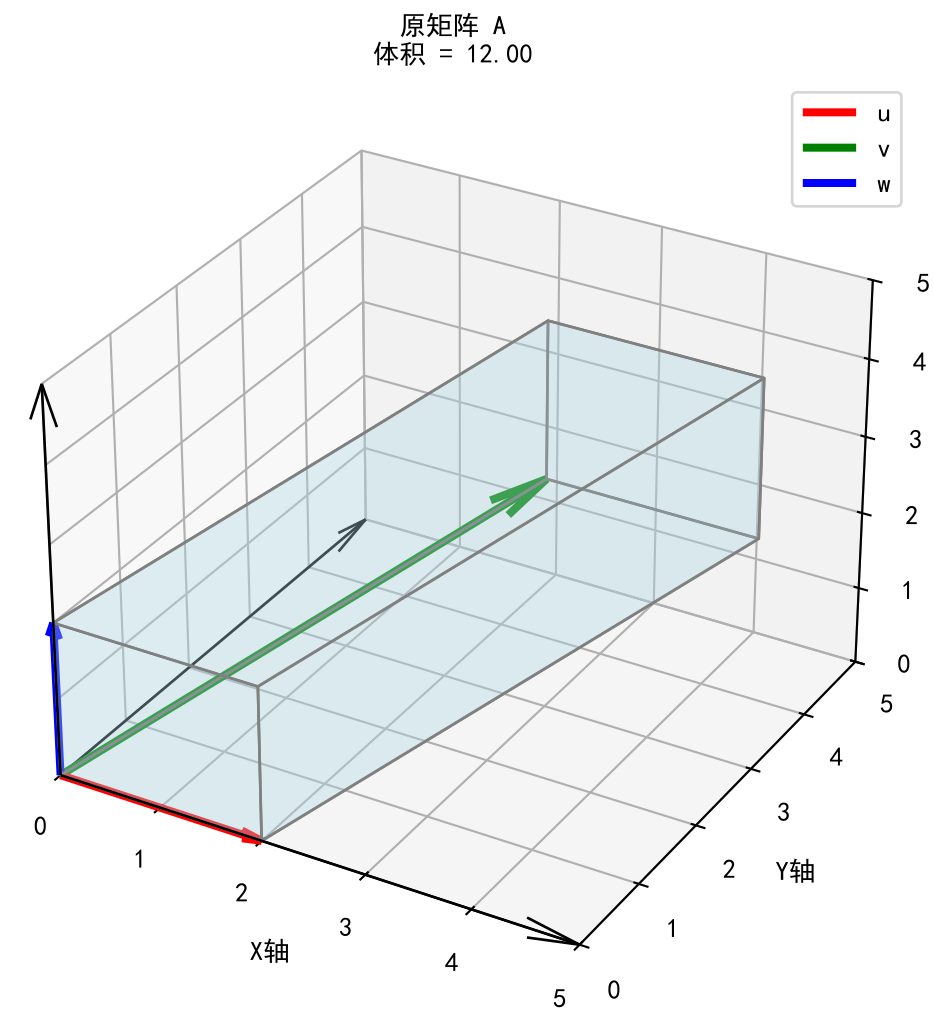




行列式某行拆项(用行向量绘制)

原矩阵 A:
[[2 0 0]
[3 3 3]
[0 0 2]]
第二行 [3, 3, 3] = [1, 1, 1] + [2, 2, 2]
det(A) = 12.00

分解矩阵 A1:
[[2 0 0]
[1 1 1]
[0 0 2]]
det(A1) = 4.00

分解矩阵 A2:
[[2 0 0]
[2 2 2]
[0 0 2]]
det(A2) = 8.00

验证:
det(A1) + det(A2) = 12.00
det(A) = 12.00
相等: True

几何解释:
平行六面体体积具有可加性
当一边分解为两个向量之和时
总体积等于两个平行六面体体积之和