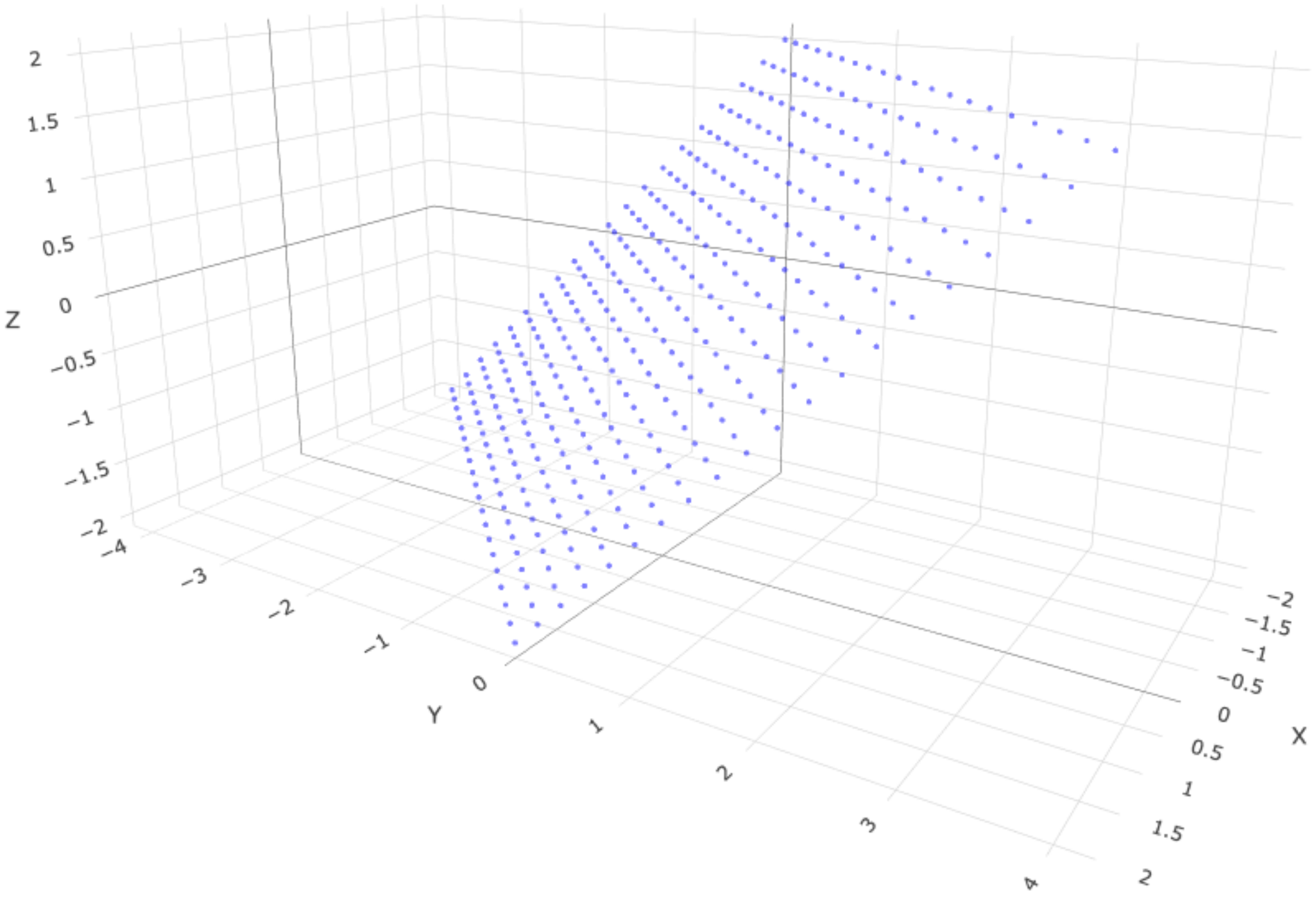
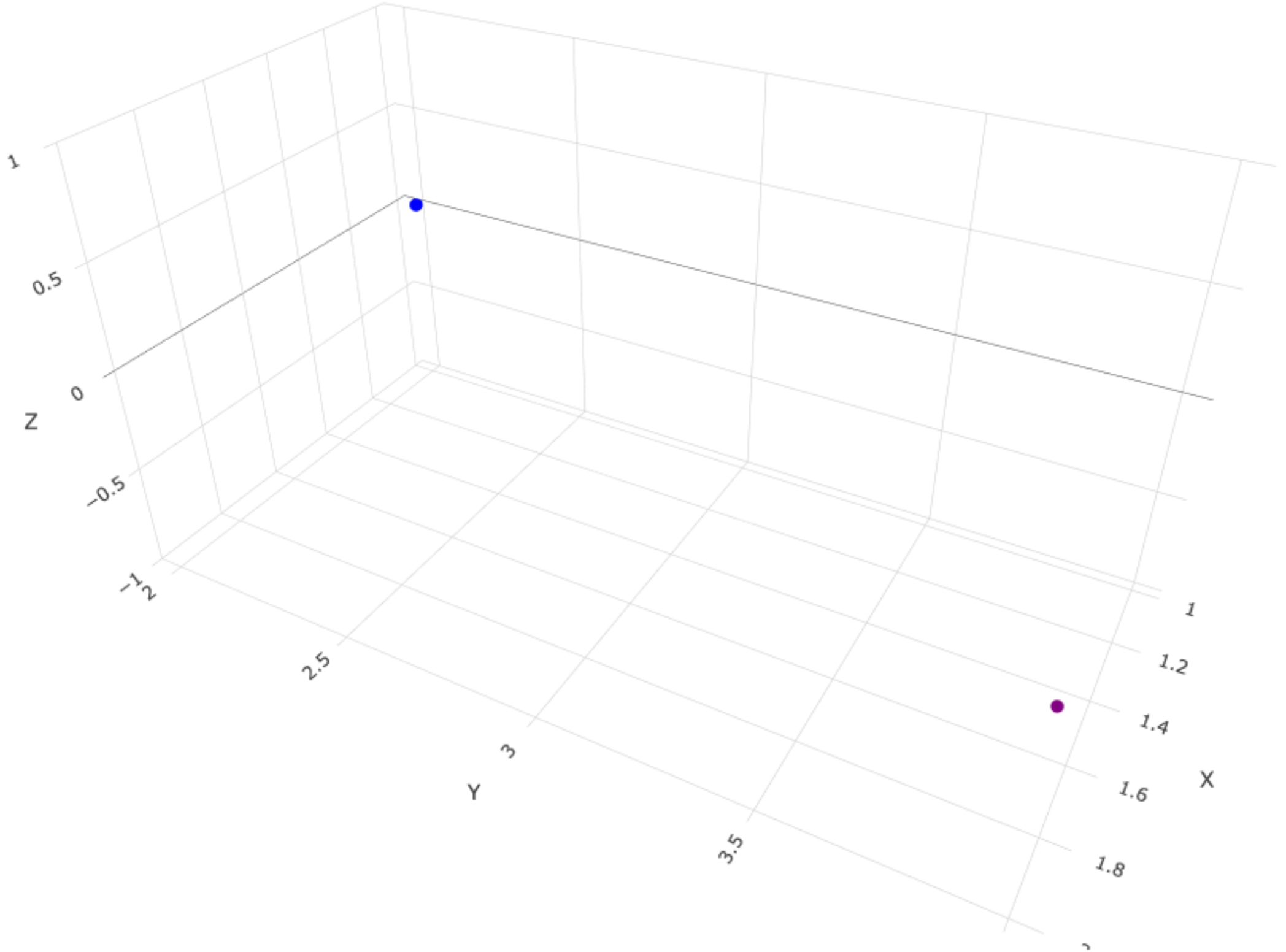
linear combinations: planes and lines

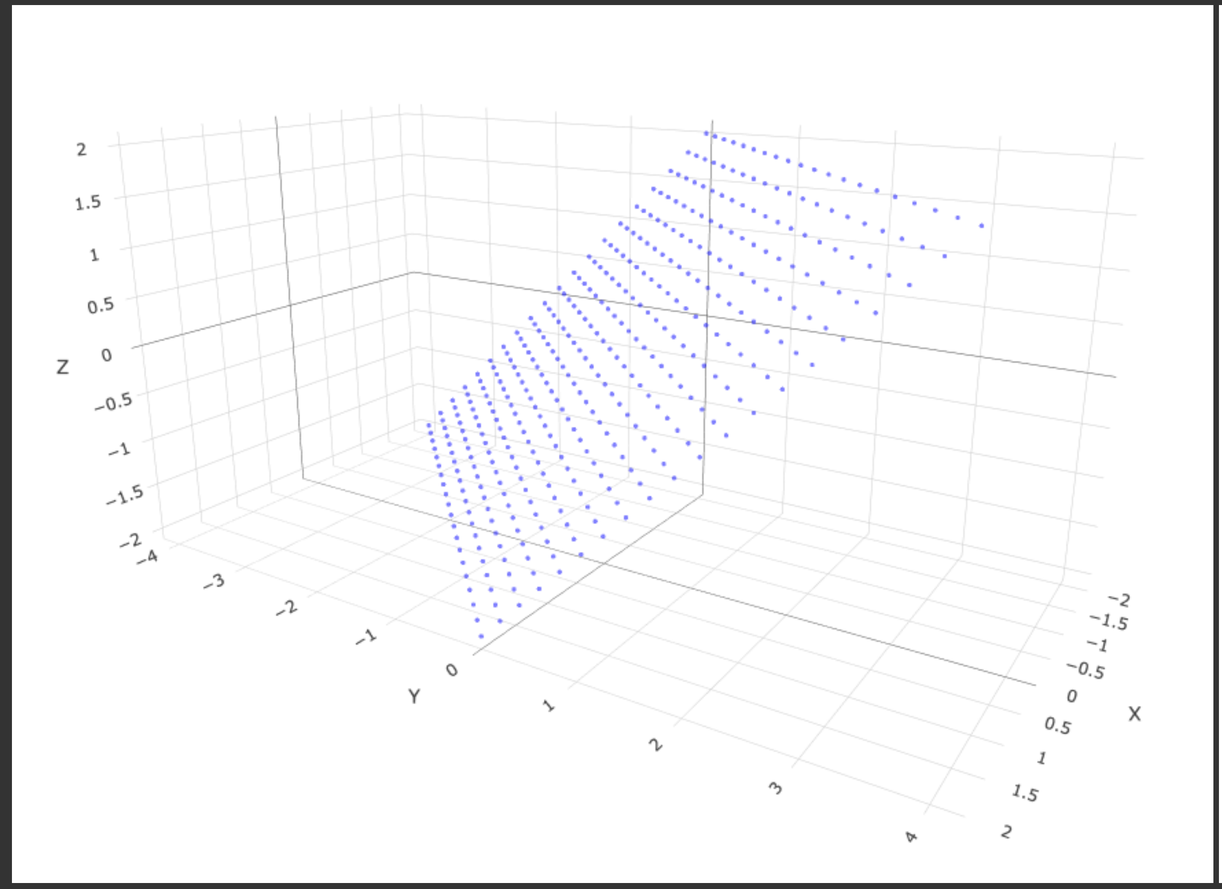
Geometrically,

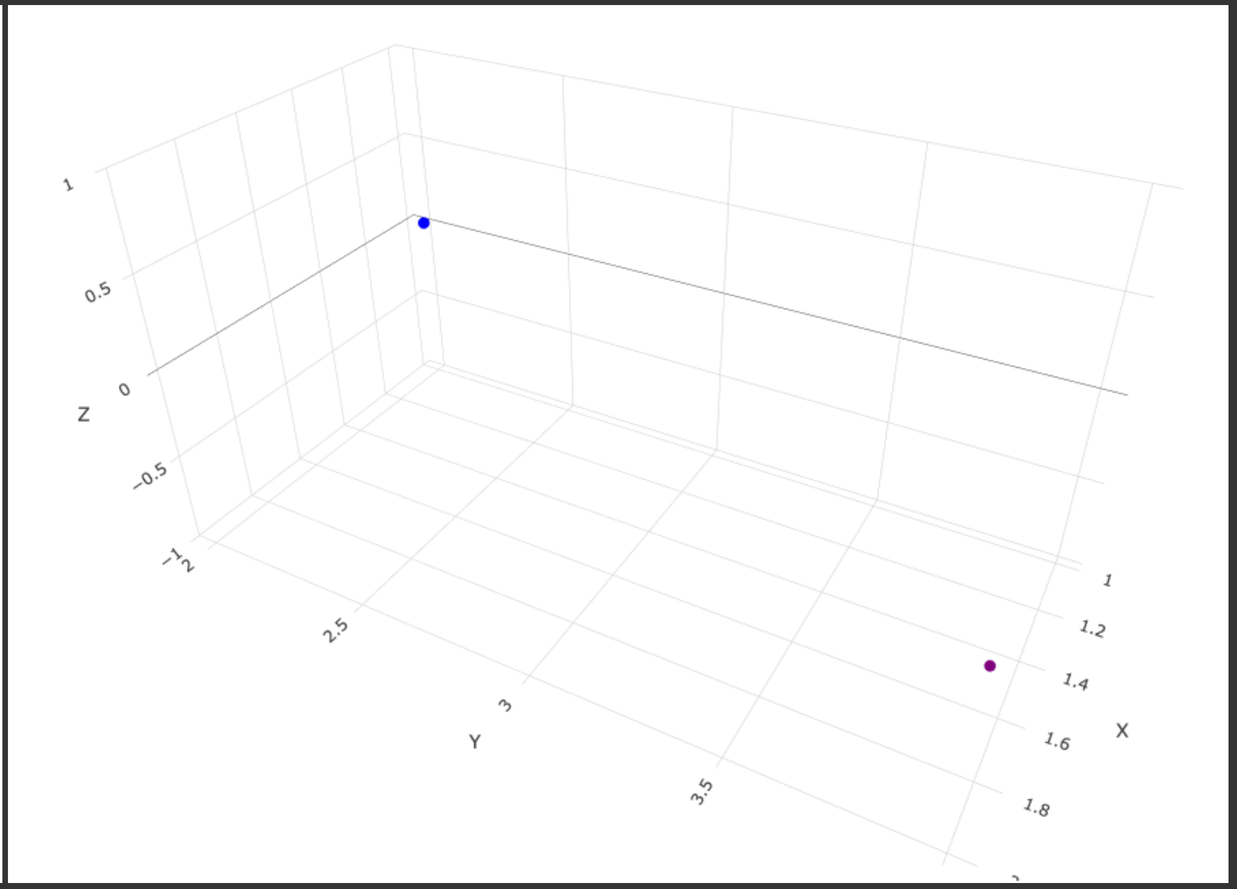

Z
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
Y
−4
−3
−2
−1
0
1
2
3
4
X
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2


1
0.5
0
−0.5
−1
Z
2
2.5
3
3.5
Y
1
1.2
1.4
1.6
1.8
X

linear combinations: planes and lines

- Geometrically, the linear combinations of a nonzero vector form a line. The linear combinations of two nonzero vectors form a plane, unless the two vectors are collinear, in which case they form a line.





linear combinations