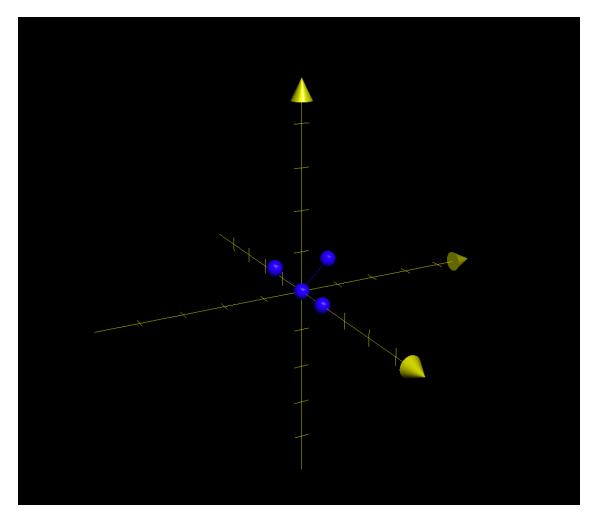
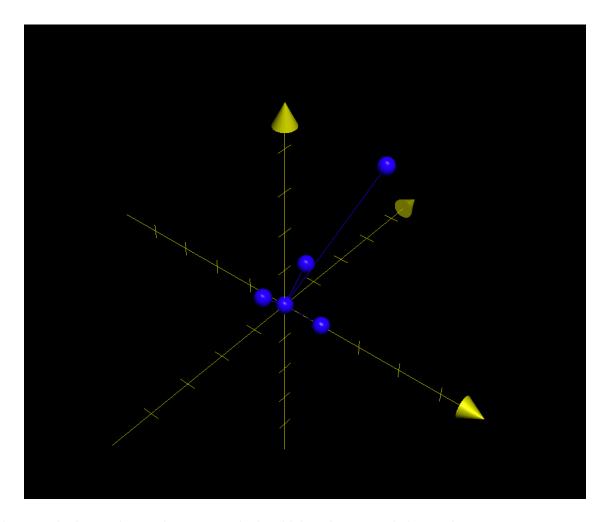
uugh I spent an hour trying to get \LaTeX to position the image on the first page. The basis:



The vector:

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Change color in Grapher: Select an entry in the sidebar, then use Window > Show Inspector The working out:

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Axler 6.13 ex 3
orthonormality (1,0,0), (1,1,1), (1,1,2)
$\ell_1 = (1, 0, 0), \ \ell_2 = \text{normalize}((1, 1, 1) - (1, 0, 0))$ $= \text{normalize}((0, 1, 1))$ $= (0, \sqrt{2}, \sqrt{2})$
The state of the s
$e_3 = normalize ((1, 1, 2) - (1, 0, 0) - \frac{3}{\sqrt{2}} (0, \frac{1}{\sqrt{2}}, \sqrt{2}))$
= normalize (0,1,2)-(0, =, =)
= normalize $(0, \frac{1}{2}, \frac{1}{2})$
=(0, 元, 起)
(1,0,0), (0,症,症), (0,症,症)
0+ = = = = = = = = = = = = = = = = = = =
V= (1, 2, 3)
= ((1,2,3),(1,0,0)) e,+((1,2,3),(0,症,症)) e2+((1,33),(0,症,症))
$= 1e, + \frac{5}{5}e_2 + \frac{1}{5}e_3$
=(1,0,0)+(0,至,至)+(0,主,主)
=(1, ½, ½) ✓

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