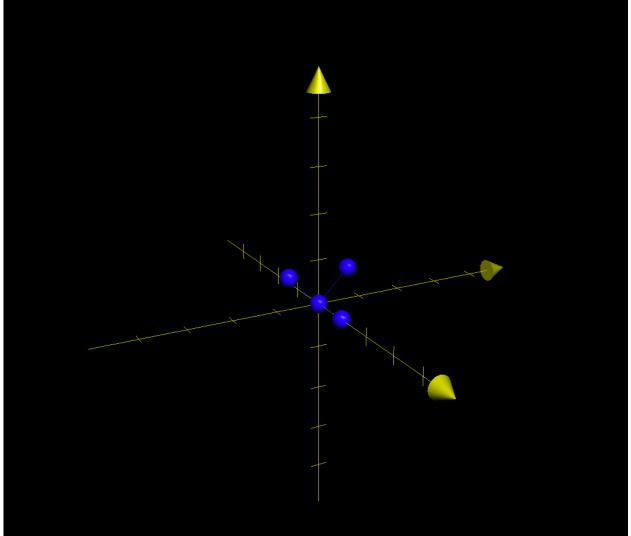
Axler 6.B #3 May 5, 2021

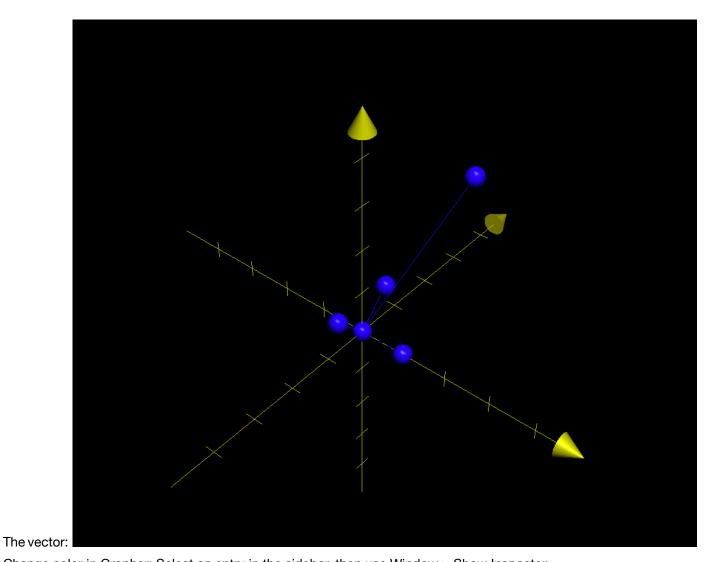
uugh I spent an hour trying to get LaTeX to position the image on the first page.



The basis:

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

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Axler 6.B ex 3

orthonormality (1,0,0), (1,1,1), (1,1,2)

$$e_1 = (1,0,0)$$
,  $e_2 = normalize((1,1,1)-(1,0,0))$ 
 $= normalize((0,1,1))$ 
 $= (0, \frac{1}{12}, \frac{1}{12})$ 
 $e_3 = normalize((1,1,2)-(1,0,0)-\frac{3}{12}(0,\frac{1}{12},\frac{1}{12}))$ 
 $= normalize((0,1,2)-(0,\frac{3}{2},\frac{3}{2}))$ 
 $= normalize((0,\frac{1}{2},\frac{1}{2}))$ 
 $= (0,\frac{1}{12},\frac{1}{42})$ 
 $= (0,\frac{1}{12},\frac{1}{42})$ 
 $= (0,\frac{1}{12},\frac{1}{42})$ 
 $= (0,\frac{1}{12},\frac{1}{42})$ 
 $= (1,2,3),(1,0,0)$ 
 $= (1,2,3)$ 
 $= (1,2,3),(1,0,0)$ 
 $= (1,\frac{1}{2},\frac{1}{2})$ 
 $= (1,\frac{1}{2},\frac{1}{2})$ 
 $= (1,\frac{1}{2},\frac{1}{2})$ 
 $= (1,\frac{1}{2},\frac{1}{2})$ 

The working out:

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