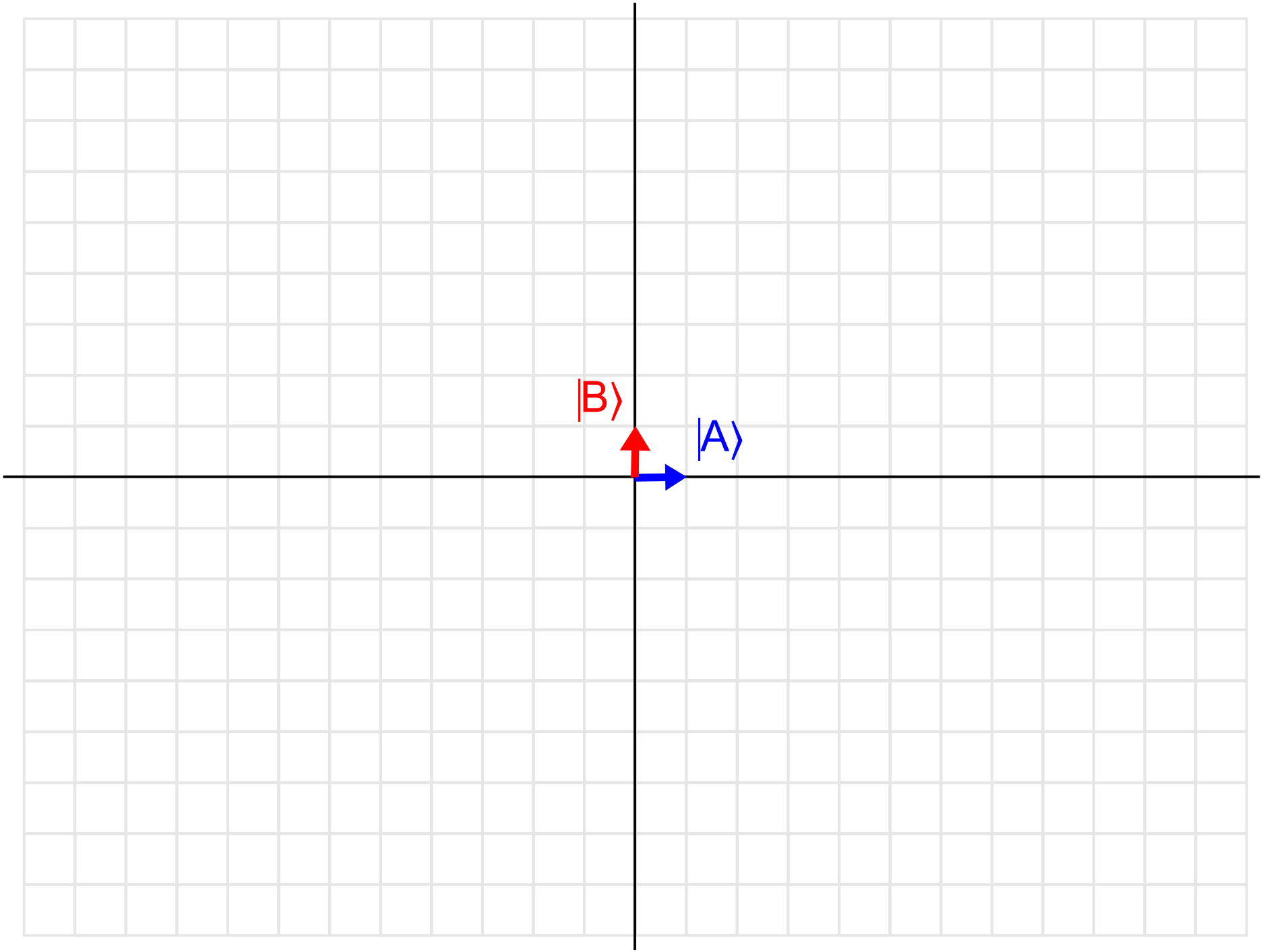
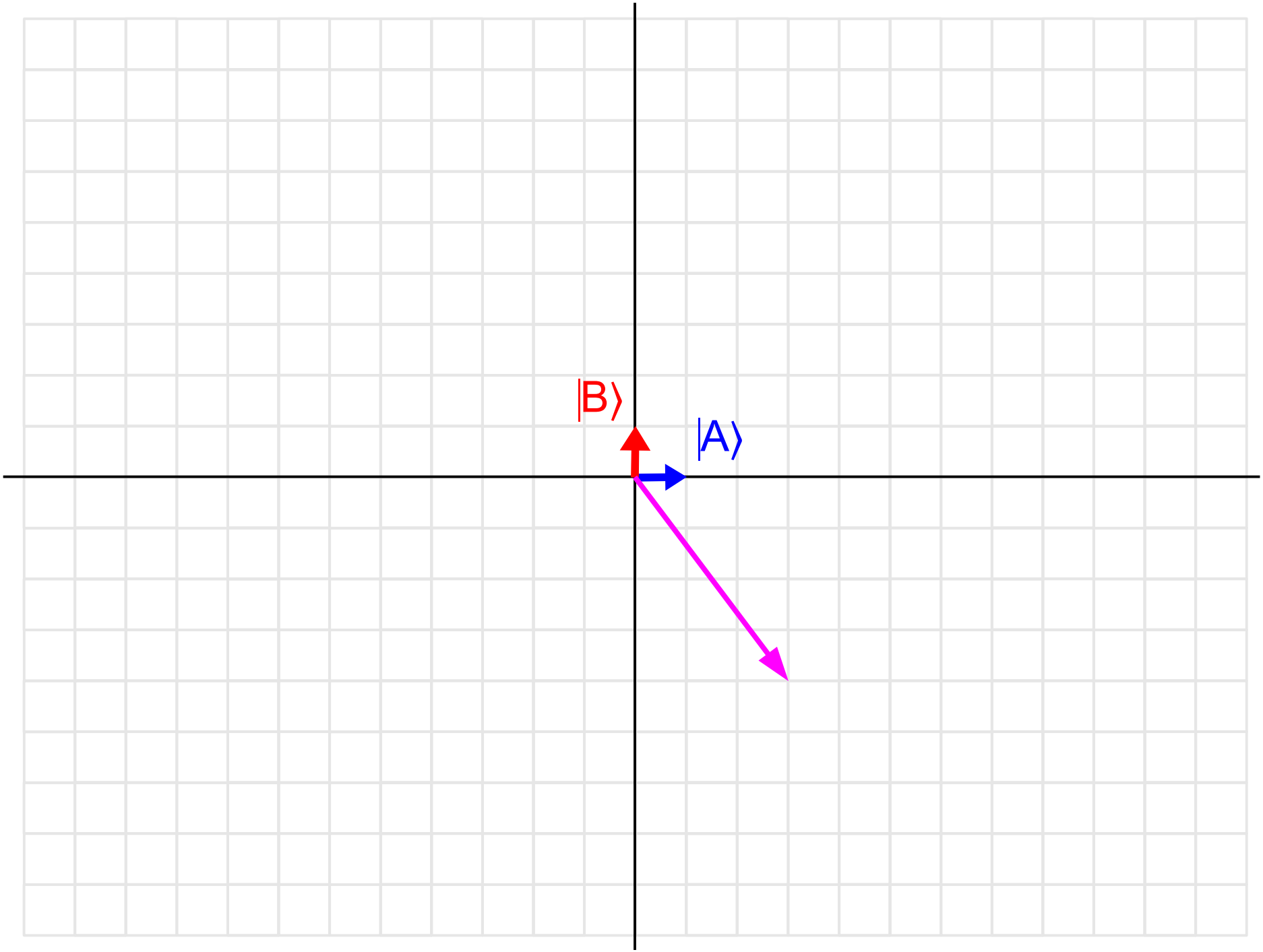

|B⟩
|A⟩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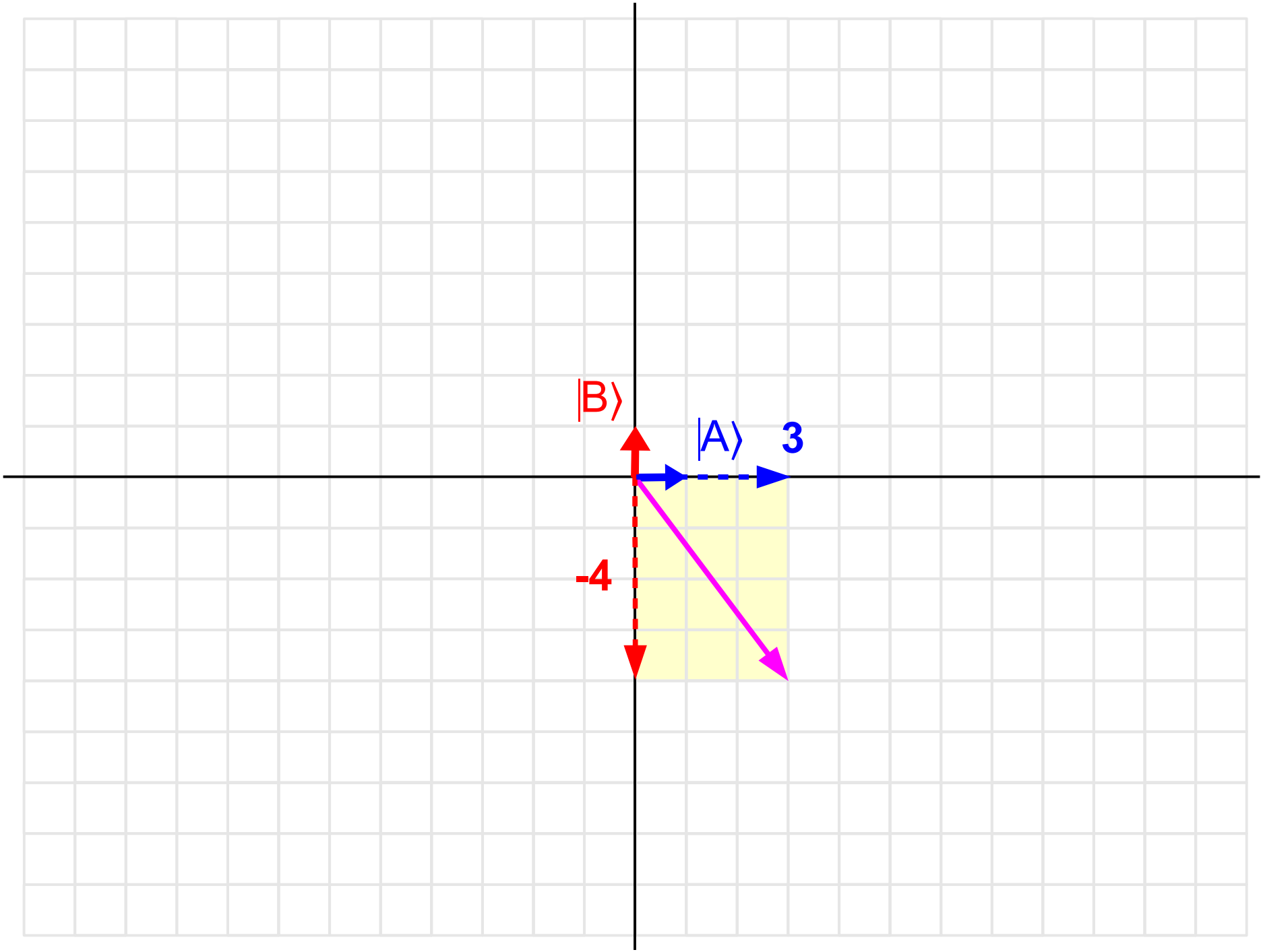
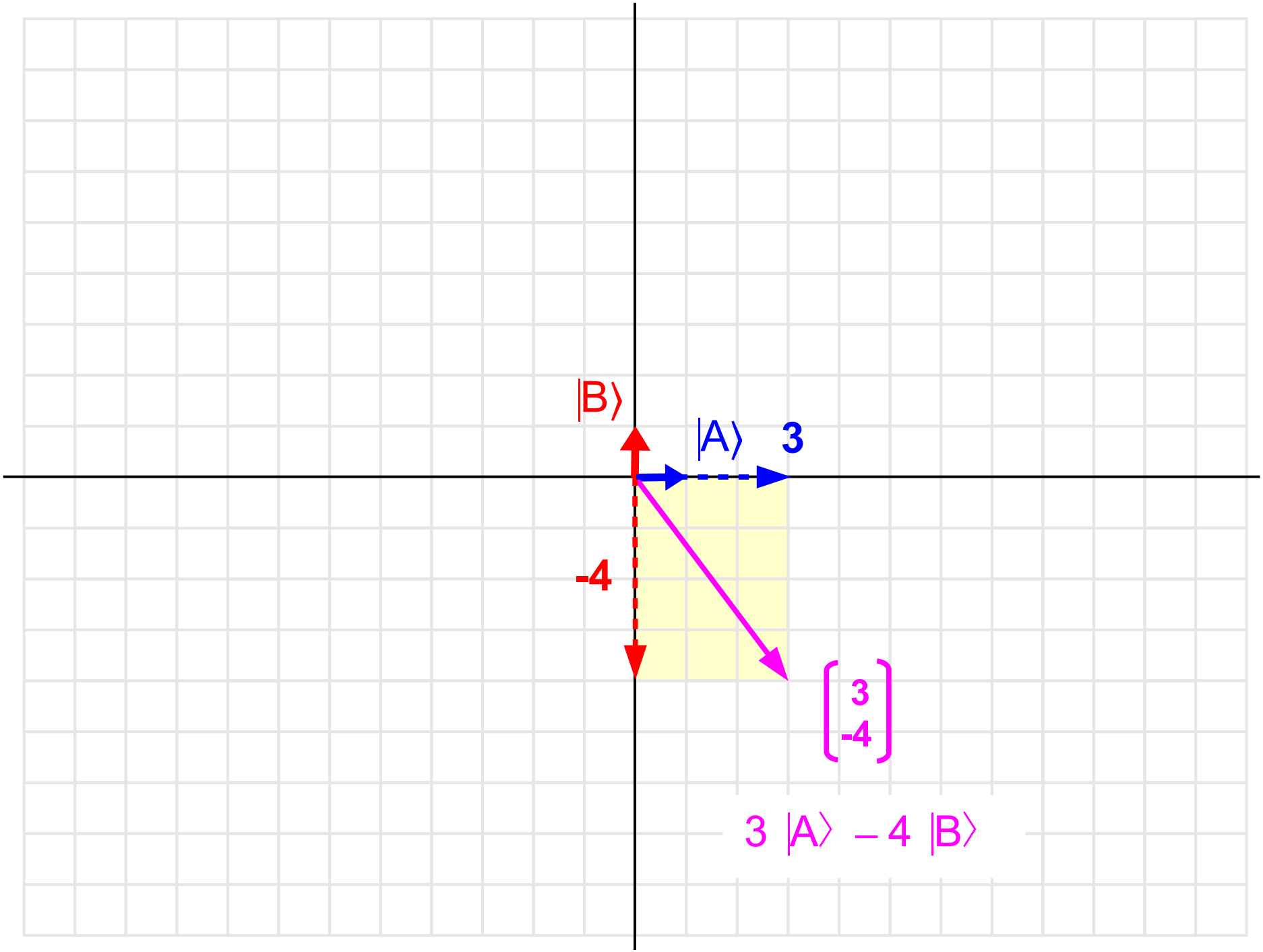
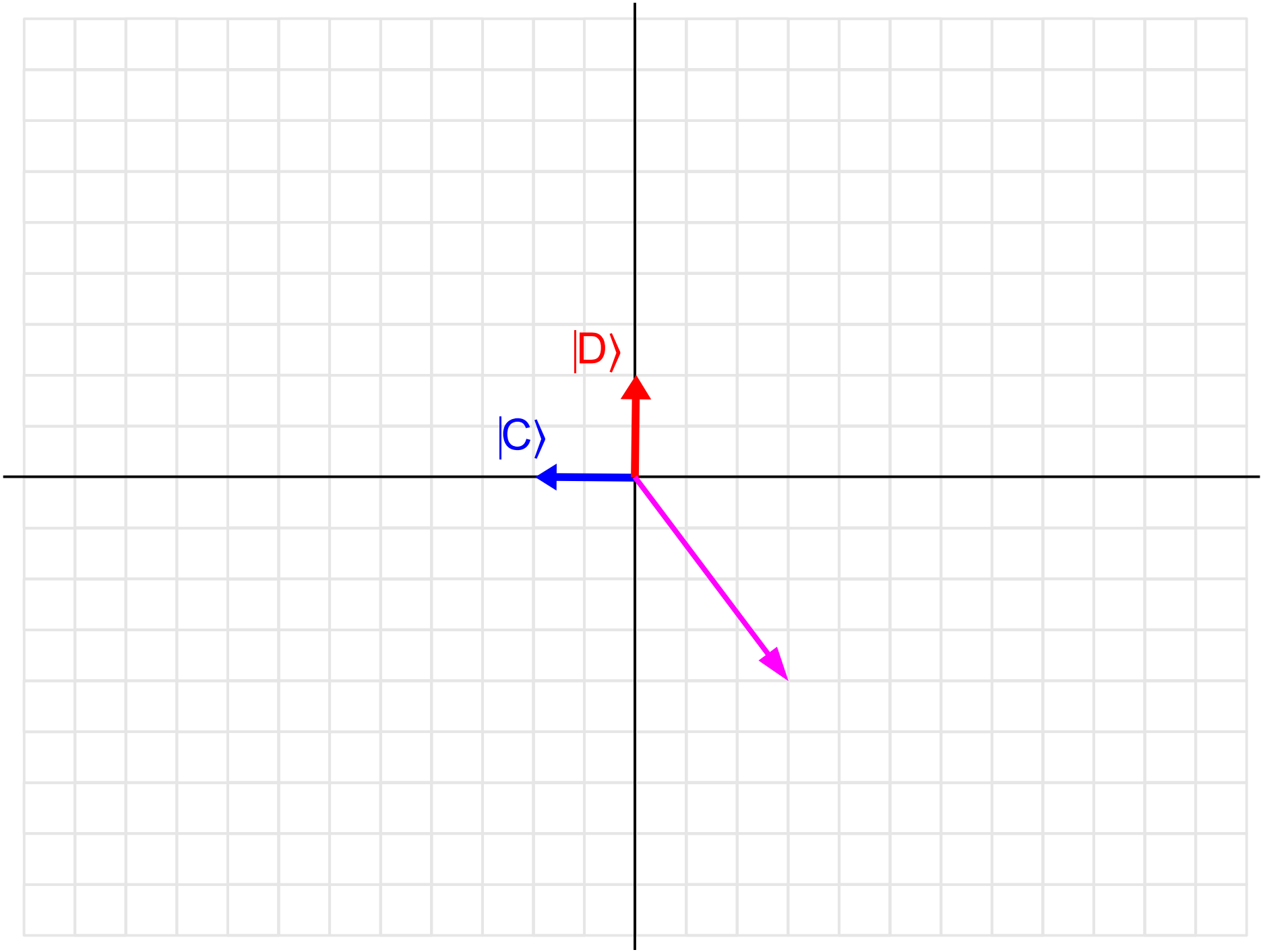
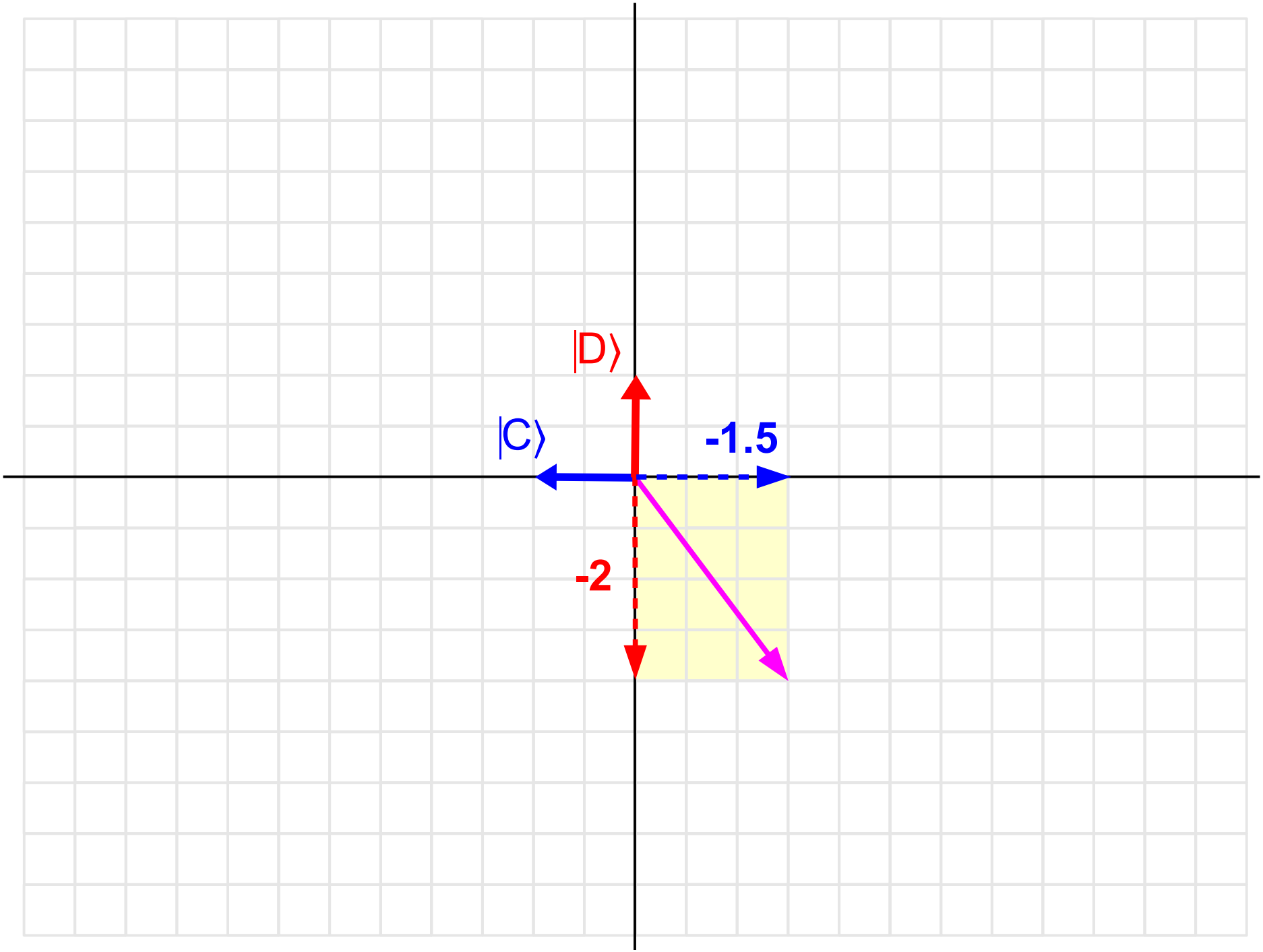
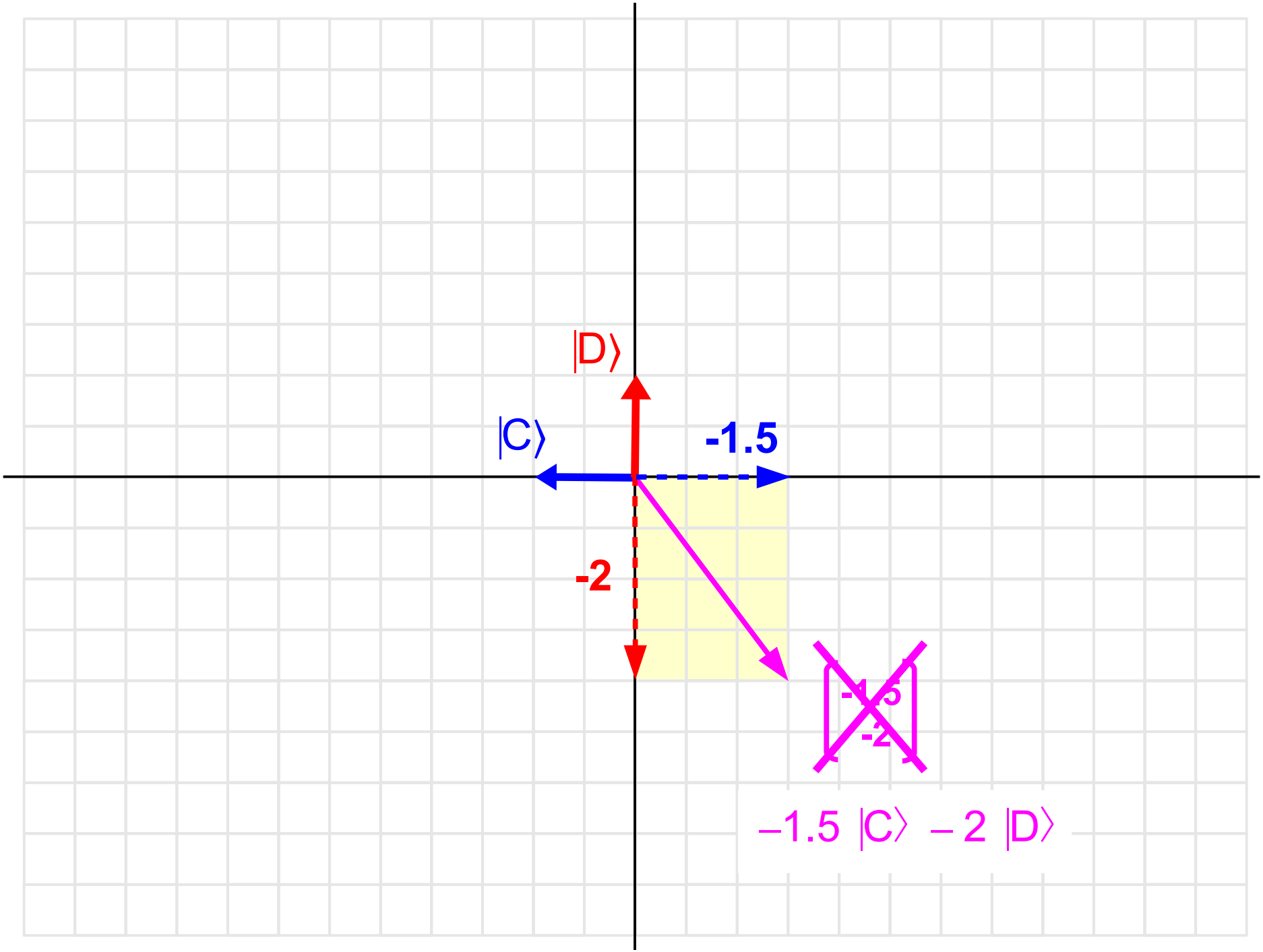
|A⟩

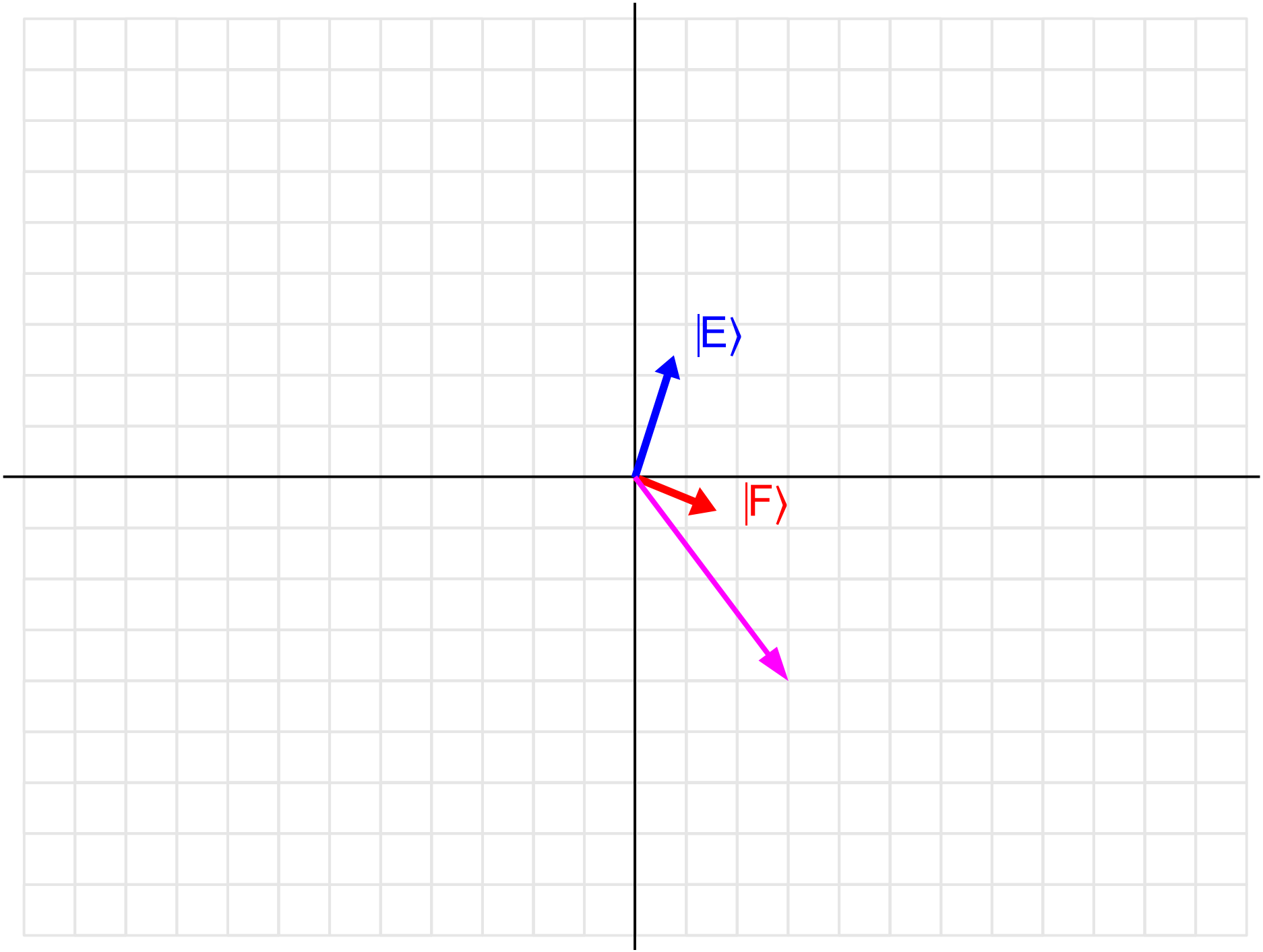

|B⟩
|A⟩
3
-4

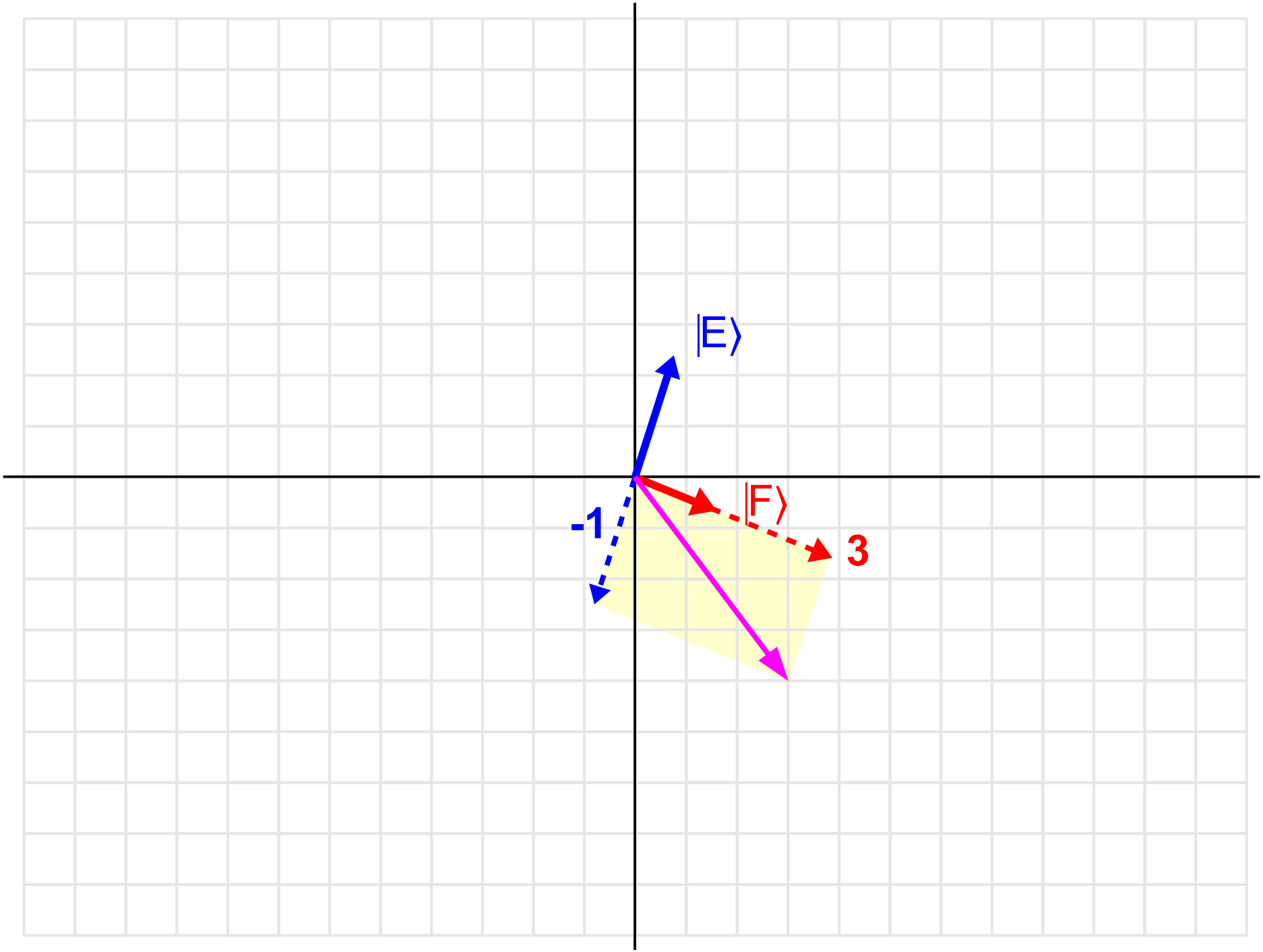

|B⟩
|A⟩
3
-4
3
-4
3 |A⟩ – 4 |B⟩

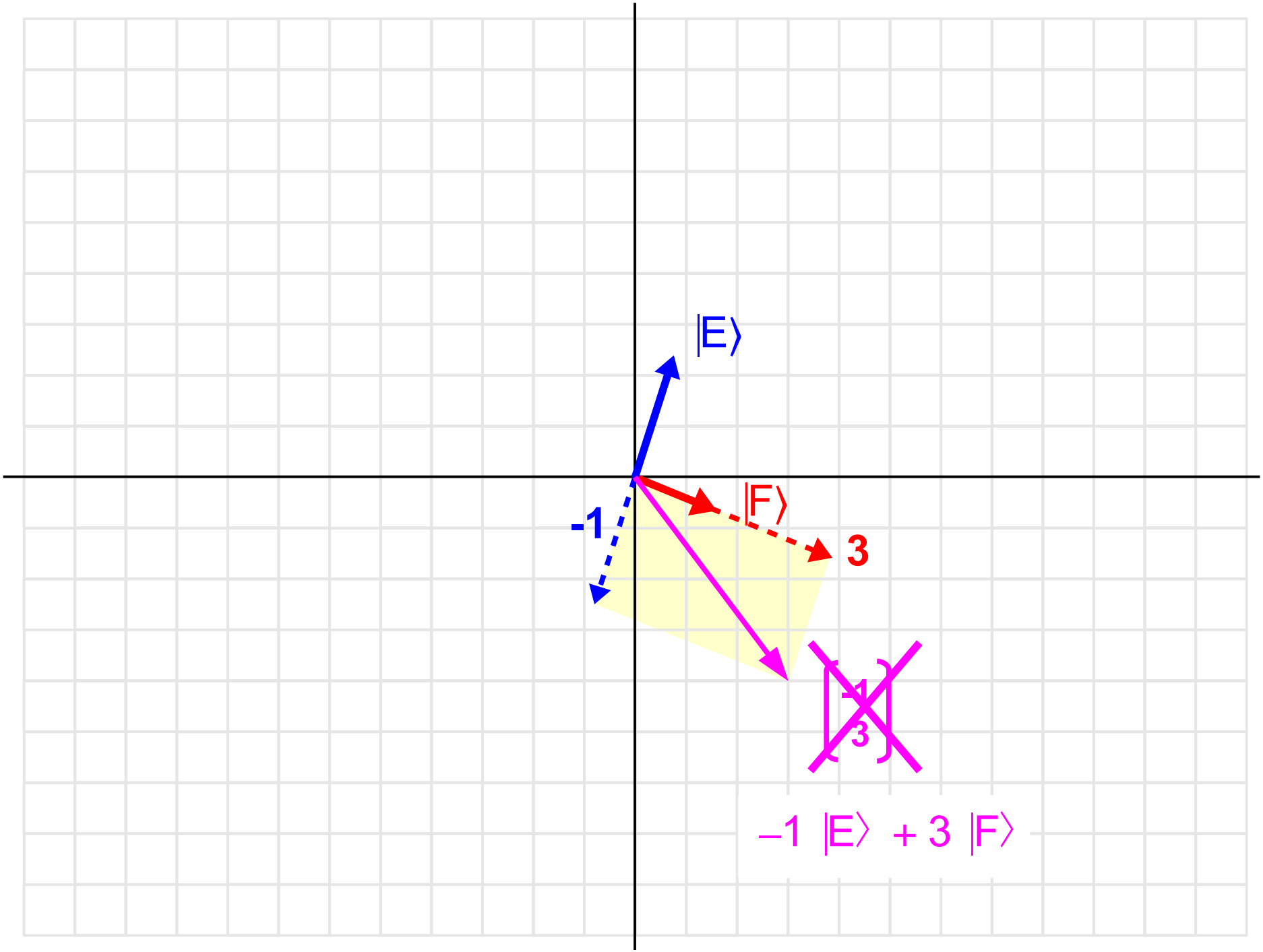

|D⟩
|C⟩


|D⟩
|C⟩
-1.5
-2

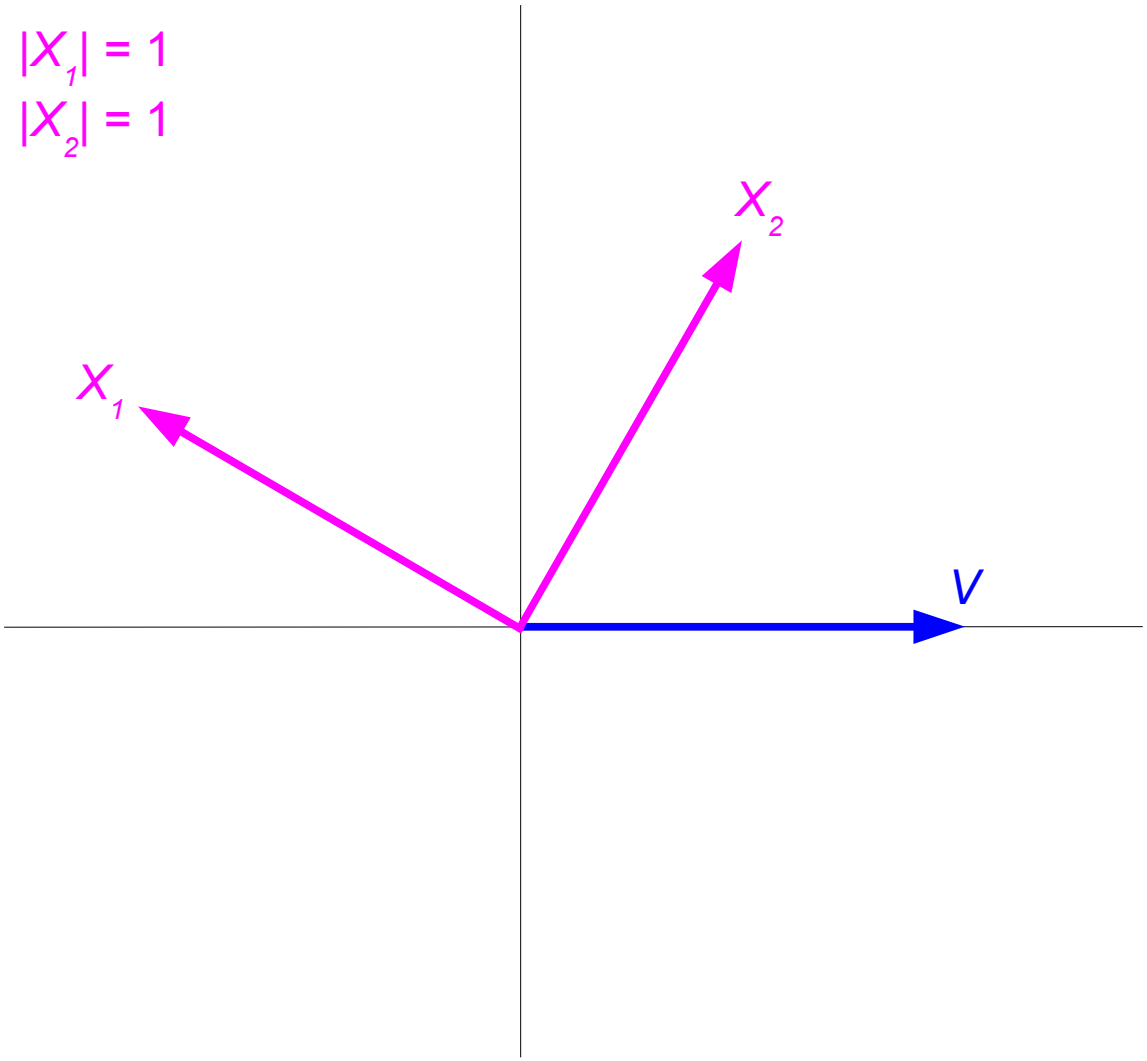

|D⟩
|C⟩
-1.5
-2
–1.5 |C⟩ – 2 |D⟩


|E⟩
|F⟩

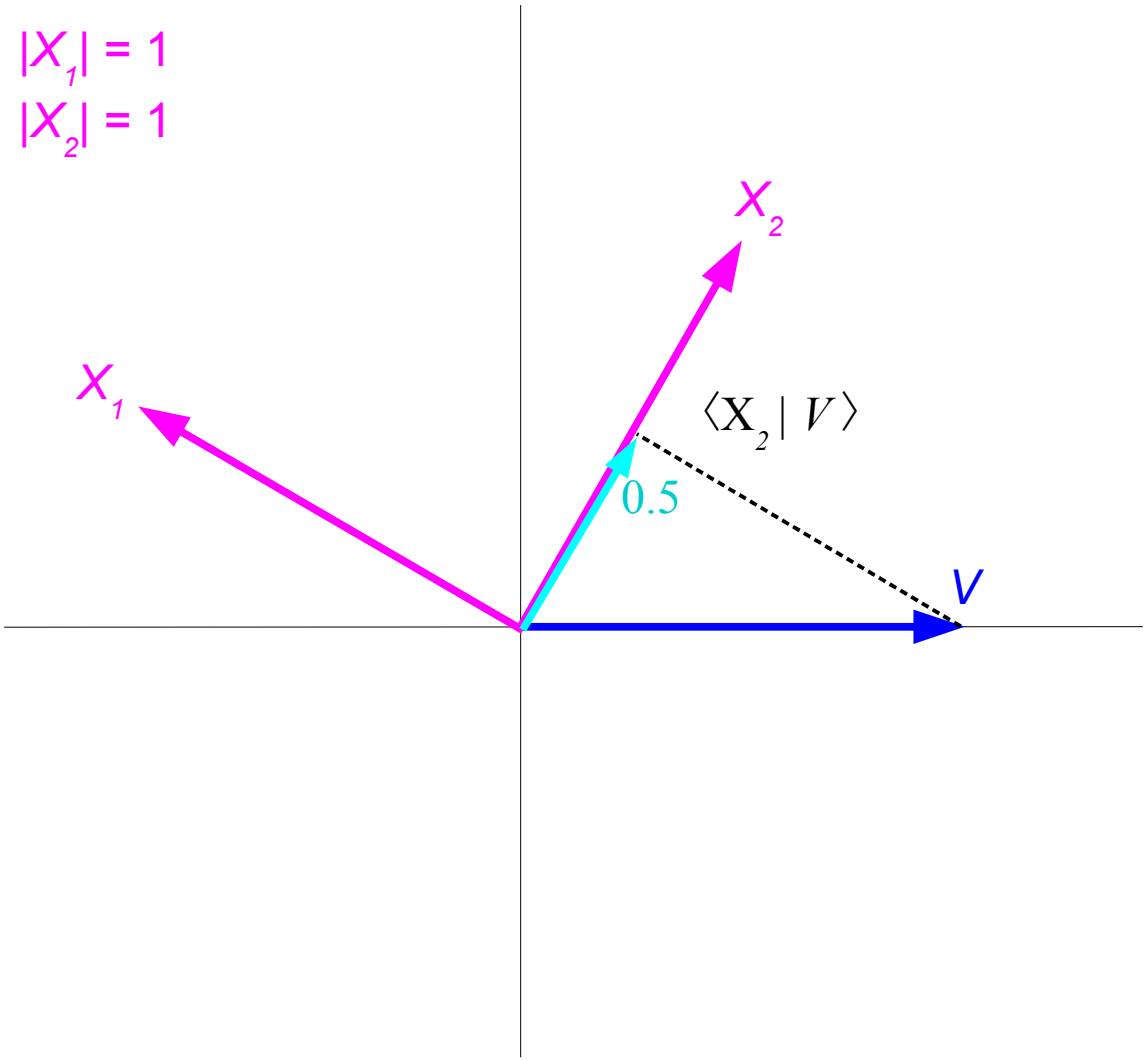

|E⟩
|F⟩
-1
3


|E⟩
|F⟩
-1
3
−1
3
−1 |E⟩ + 3 |F⟩

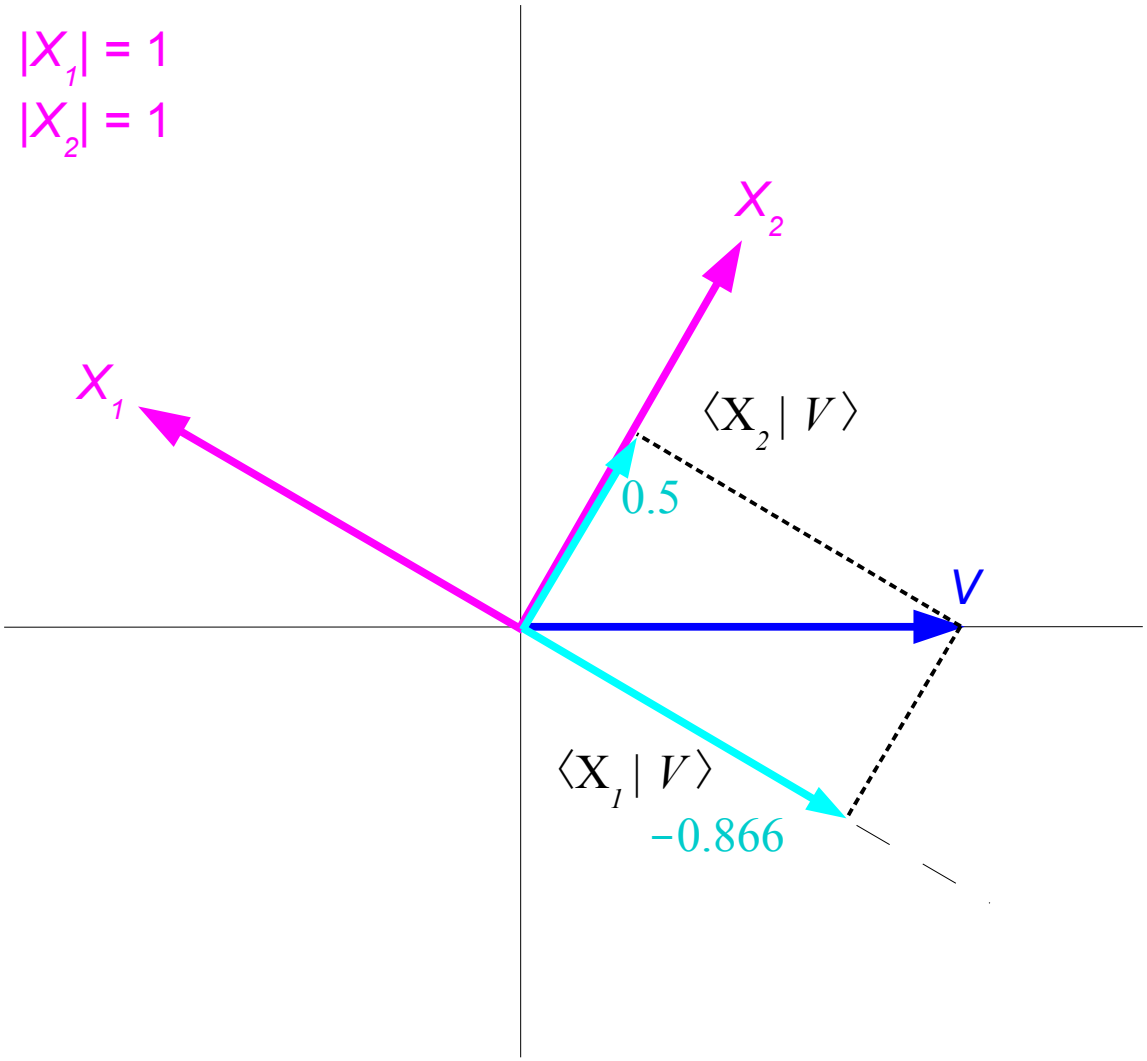
Projecting V onto X_1 and X_2



Projecting V onto X_1 and X_2

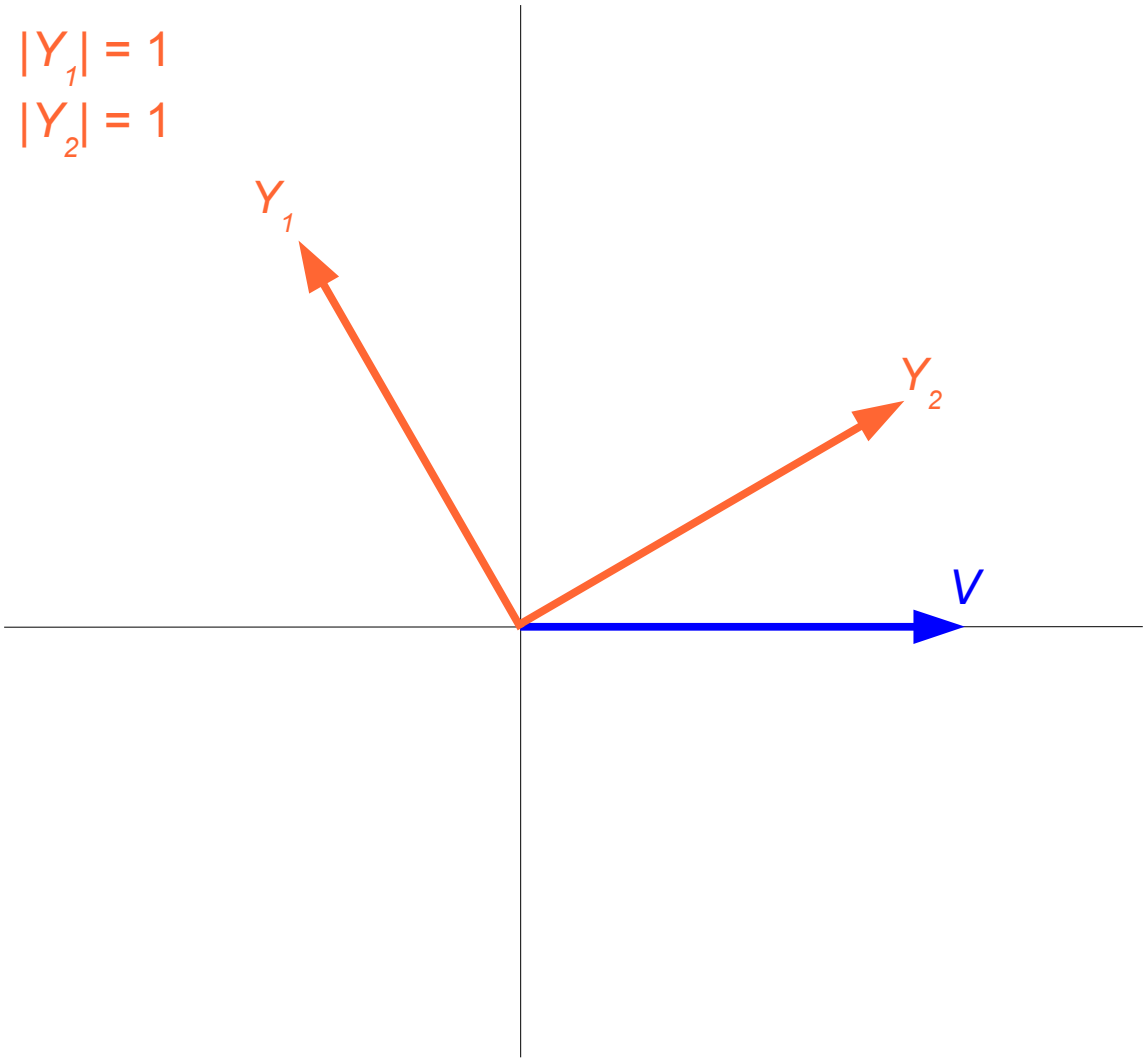


Projecting V onto X_1 and X_2

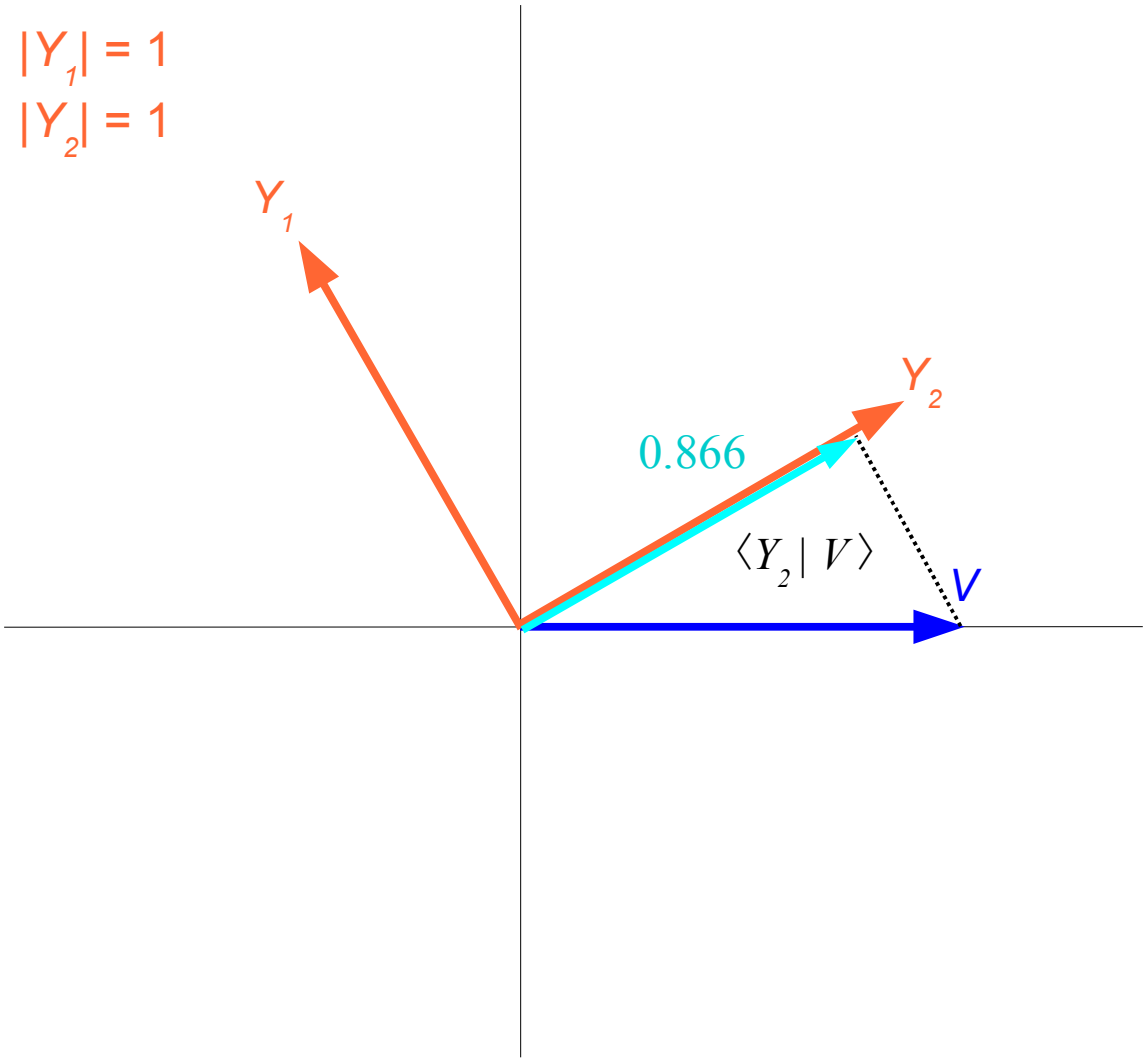


$$V = -0.866\,|X_1\rangle + 0.5\,|X_2\rangle$$

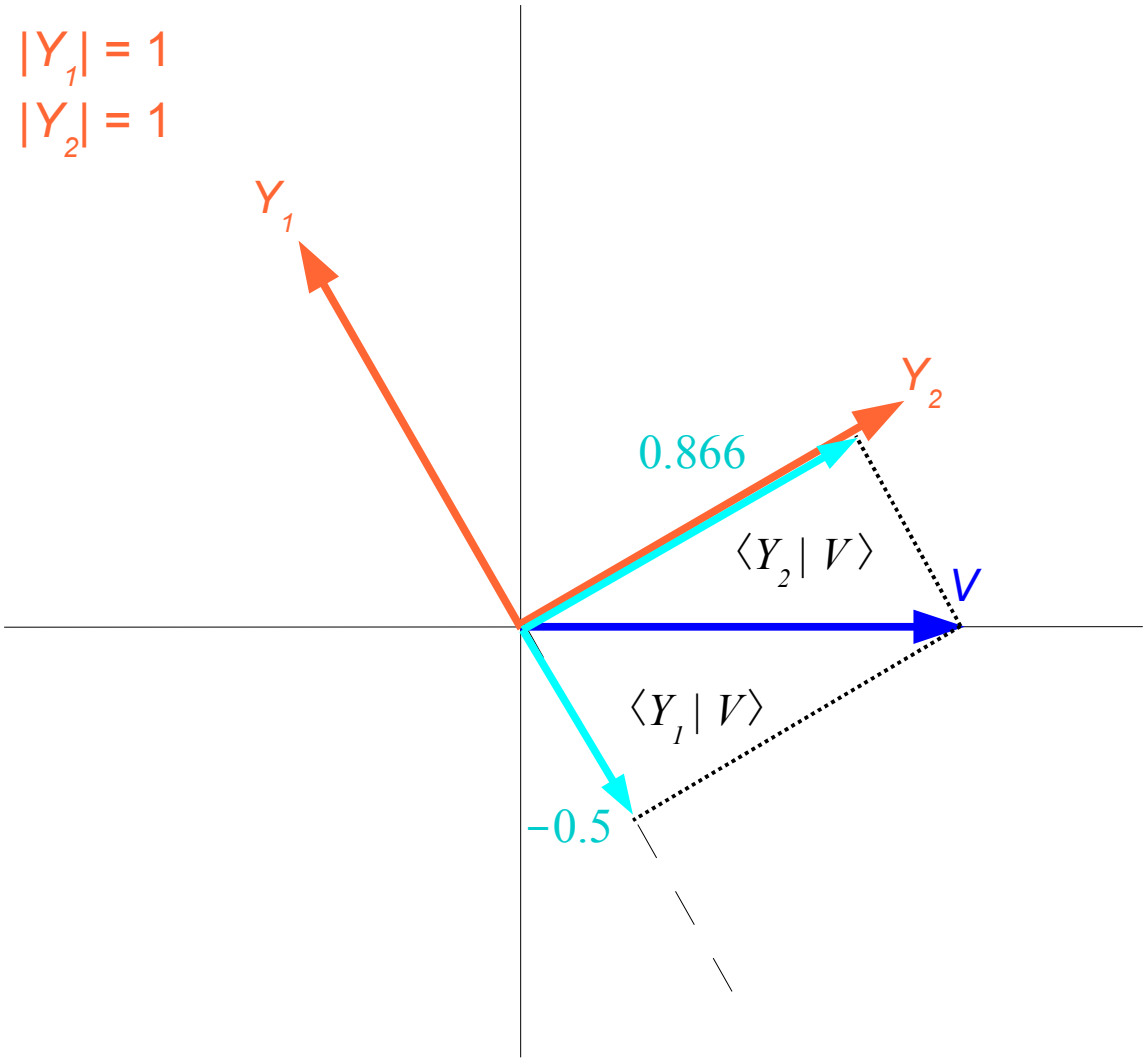
Projecting V onto Y_1 and Y_2



Projecting V onto Y_1 and Y_2



Projecting V onto Y_1 and Y_2



$$V = -0.5\,|Y_1\rangle + 0.866\,|Y_2\rangle$$