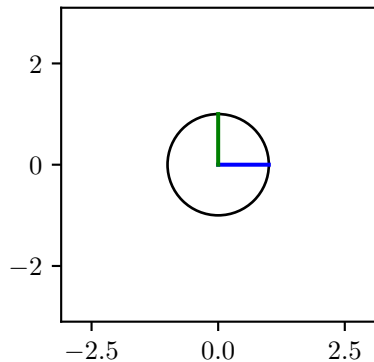
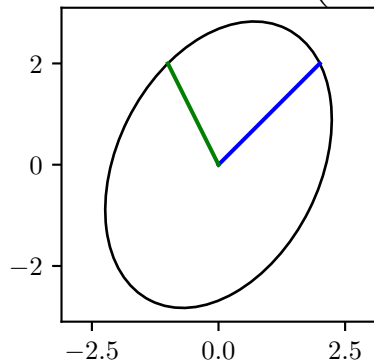


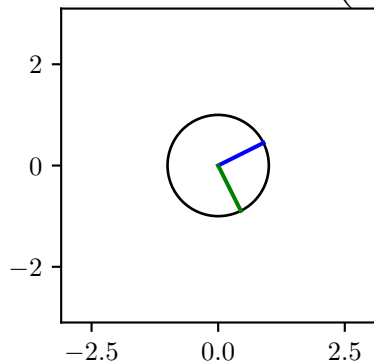
Unit circle with $\mathbf{e}_1, \mathbf{e}_2$



After applying $Q = \frac{1}{\sqrt{5}} \begin{pmatrix} 1 & 2 \\ 2 & -1 \end{pmatrix}$



After applying $(Q')^T = \frac{1}{\sqrt{5}} \begin{pmatrix} 2 & 1 \\ 1 & -2 \end{pmatrix}$



After applying $D = \begin{pmatrix} 3 & 0 \\ 0 & 2 \end{pmatrix}$

