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This is the solution to exercise 1.13 in the book. Solution. If we consider matrix $U = \begin{pmatrix} \cos \theta & \sin \theta \\ -\sin \theta & \cos \theta \end{pmatrix}$ such that $U^\dagger A U = \begin{pmatrix} a & 0 \\ 0 & a' \end{pmatrix}$. then we get $\theta = \frac{1}{2} \arctan \frac{2b}{a-a'}$, or $\tan 2\theta = \frac{2b}{a-a'}$, hence $\theta = \frac{1}{2} \arctan \frac{2b}{a-a'}$. Therefore $U = \frac{1}{\sqrt{2}} \begin{pmatrix} \cos \theta + i \sin \theta & \sin \theta - i \cos \theta \\ -\sin \theta - i \cos \theta & \cos \theta + i \sin \theta \end{pmatrix}$

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