## Rayleigh Quotient Iteration

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A=X OX

Describe Rayleigh Quotient Iteration.

×'Ax

Demo: Power Iteration and its Variants [cleared]

10 A'= 15-14+ A'0 ミリミリ x=b 4EV + x= 6 EV + UL  $\forall_{10} \times$ A XX ID  $A A A \left( f (A \times) \right)$ y=1 Axx [-10) Vy=X =((A A\*A )×E

In-Class Activity: Eigenvalues

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Schur Form: Comments, Eigenvalues, Eigenvectors

- $A = QUQ^T$ . For complex  $\lambda$ :
  - Either complex matrices, or
  - $\blacktriangleright$  2 × 2 blocks on diag.

If we had a Schur form of A, how can we find the eigenvalues?

And the eigenvectors?