Skew-symmetric tridiagonal, 
$m = 10, P = (1, \alpha, \alpha^3, \bar{\alpha}, \bar{\alpha}^3, i)$ where $\alpha = \exp(\pi i/8)$.
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Skew-symmetric tridiagonal, $m = 22$, $P = 1 \pm i$.

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Skew-symmetric tridiagonal with visible rounding errors

$m = 15, P = 1 \pm i.$

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Upper Hessenberg Toeplitz matrices with diagonal entries fixed at 0, subdiagonal entries fixed at 1, and the population is all complex fifth roots of unity. Dimension $m = 13$, sample of 10 million matrices.

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Complex roots of the Fibonacci-Mandelbrot polynomials defined by $q_0 = 0$, $q_1 = 1$, $q_{n+1} = 2q_nq_{n-1} + 1$ for $n$ from 4 through 30.

Doubly companion matrices with population $\pm 1$. Dimension $m = 19$, sample of 10 million matrices.
Circulant matrices with population \((-1, 0, 1)\). Dimension \(m = 15\), sample of 5 million matrices.
Unstructured matrices with population (−20, −1, 0, 1, 20). Dimension $m = 5$, sample of 73 million matrices.

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Upper Hessenberg Toeplitz matrices with diagonal entries fixed at 0, subdiagonal entries fixed at 1, and \( P = (-1, 0, 1) \). Dimension \( m = 12 \), sample of 100 million matrices. Image ©(2018) Eunice Y. S. Chan, Robert M. Corless and Steven E. Thornton
Anti-tridiagonal with visible rounding errors in close-up (corners at ±0.05). $m = 20, P = (-1,0,1)$, sample of 25 million matrices
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