A Classroom Worksheet

This worksheet was created for High School math students in an advanced math course such as Calculus. The following are two questions that could be used in order to test students' knowledge of Olga Taussky-Todd and her mathematics.

Given the matrix below, find the eigenvalues.

3	1
6	2

Use the Gerschgorin Circle Theorem to graph the corresponding circles and find the area in which the Eigenvalues would lie.

3+4i	2	2
1	2+3i	0
0	2	-2

References:

"Olga Taussky-Todd. The Many Aspects of Pythagorean
      Triangles." www.awnmath.org/noetherbrochure/Taussky-
      Todd81.htm.

"Remembering Olga Taussky-Todd." Davis, Chandler.
      www.agnesscott.edu/Iriddle/women/todd/htm.