Scientific Computing HW 7
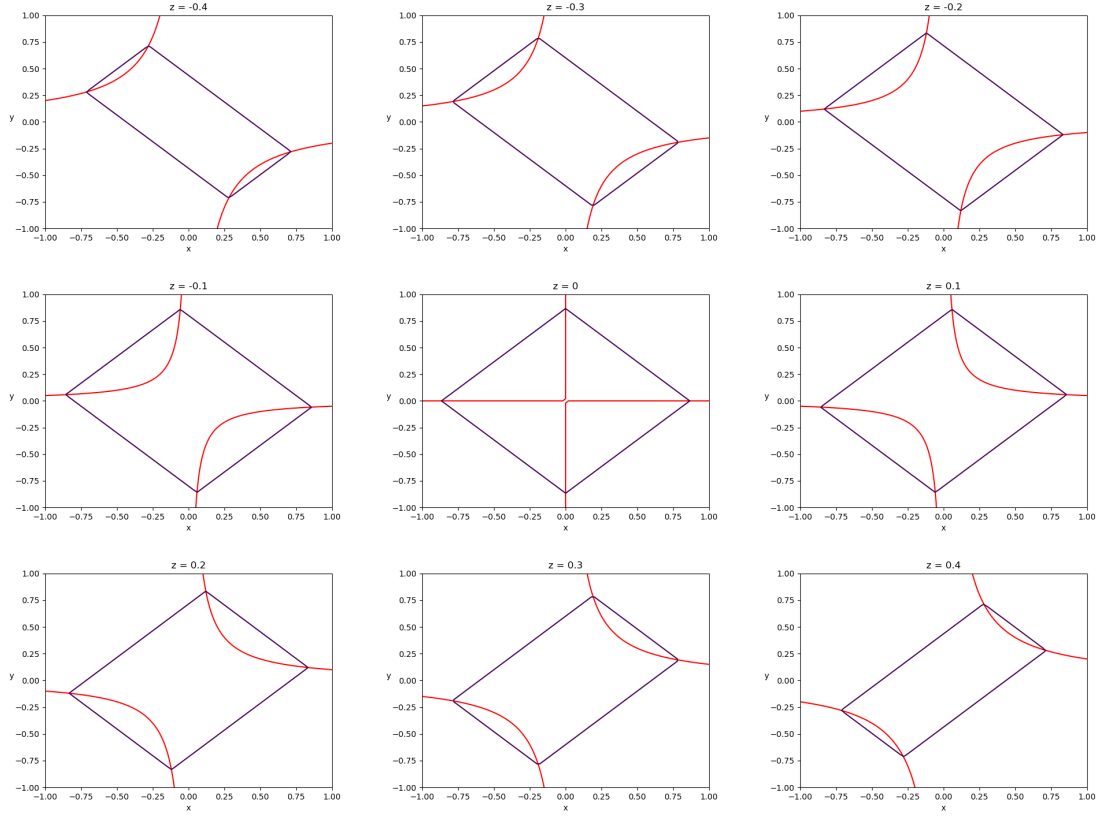
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1. (a)
   (b)

2. Below, the level curve $\det A = 0$ is colored red, and the level curve $\|A\|_* = a$ is colored purple. We see that the curves indeed intersect at the corners of $\|A\|_* = a$.

3.