



Consider two $n \times n$ matrices A and B. We say that A is similar to B if there exists an invertible matrix S such that:

$$AS = SB$$
, or $B = S^{-1}AS$

Problem

is matrix
$$A = \begin{pmatrix} 1 & 2 \\ 4 & 3 \end{pmatrix}$$
 similar to $B = \begin{pmatrix} 5 & 0 \\ 0 & -1 \end{pmatrix}$?

Problem

Compute
$$(3+4i)\left(-2-\frac{i}{2}\right)-4+i$$

Compute $\frac{2-i}{-1-3i}$ and then try to plot it