



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 
$$(2-5i)\left(\frac{i}{2}-2\right)-i+4$$

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