

## Inverse

### Exercise 2.13

a.  $A = \begin{pmatrix} -1 & i \\ 1+i & 0 \end{pmatrix}$

b.  $B = \begin{pmatrix} 1 & i \\ i & 1 \end{pmatrix}$

c.  $C = \begin{pmatrix} 1 & -1 & i \\ 1+i & 0 & \end{pmatrix}$

### Exercise 2.14

a.  $A = \begin{pmatrix} -1 & -1 & -3 \\ 1 & 2 & 2 \\ 0 & 5 & -4 \end{pmatrix}$

b.  $B = \begin{pmatrix} 1 & 3 & 3 \\ -1 & -4 & -4 \\ -1 & 3 & 2 \end{pmatrix}$

c.  $C = \begin{pmatrix} -1 & -3 & -4 \\ 1 & 4 & -3 \\ 1 & 4 & -4 \end{pmatrix}$

d.  $D = \begin{pmatrix} 0 & 1 & -4 \\ -1 & -1 & 1 \\ -2 & -1 & -1 \end{pmatrix}$

e.  $E = \begin{pmatrix} 1 & 1 & 1 \\ -3 & -4 & -1 \\ 2 & 4 & -3 \end{pmatrix}$

f.  $F = \begin{pmatrix} 1 & -2 & -2 \\ 3 & -5 & -5 \\ 1 & 0 & 1 \end{pmatrix}$