- 19. *a. Construct a 3×3 matrix A with $C(A) \subset N(A)$.
 - b. Construct a 3×3 matrix A with $N(A) \subset C(A)$.
 - c. Do you think there can be a 3×3 matrix A with N(A) = C(A)? Why or why not?
 - d. Construct a 4×4 matrix A with $\mathbb{C}(A) = \mathbb{N}(A)$.