

Math camp problem set 1

Frank Edwards

8/30/2019

Solve all problems by hand, and using R code. Some problems may not have solutions.

$$\mathbf{A} = \begin{bmatrix} 2 & 7 \\ 1 & 8 \end{bmatrix} \mathbf{B} = \begin{bmatrix} 1 & 3 & 7 \\ 4 & 2 & 6 \end{bmatrix} \mathbf{C} = \begin{bmatrix} 1 & 3 & 7 \\ 4 & 2 & 6 \\ 3 & 9 & 2 \end{bmatrix} \mathbf{D} = \begin{bmatrix} 1 & 3 \\ 4 & 5 \end{bmatrix}$$

1. B^T

2. A^T

3. $A + D$

4. $A - C$

5. $D - A$

6. $4B$

7. $2A$