Chapter 2: Exercise Set

Exercise 2.1

Consider the following matrices:

$$\mathbf{A} = \begin{bmatrix} 1 & 3 & 5 \\ 2 & 4 & 6 \\ 0 & 8 & 2 \end{bmatrix} \tag{1}$$

$$\boldsymbol{B} = \begin{bmatrix} 7 & 2 \\ 1 & 5 \\ 9 & 4 \end{bmatrix} \tag{2}$$

Find the following properties.

- (a) $A_{2,3}$
- (b) \mathbf{A}^T
- (c) \boldsymbol{B}^T
- (d) **A**+**A**
- (e) 2B + 1
- (f) **AA**
- (g) AB
- (h) $\boldsymbol{A}\odot\boldsymbol{A}$
- (i) $I_3 \boldsymbol{B}$
- (j) BI_2