- (AB)C = A(BC)
- k(AB) = (kA)B = A(kB)
- AI = A and IB = B if I is the identity matrix
- $\mathbf{0}B = \mathbf{0}$ ,  $A\mathbf{0} = \mathbf{0}$ , a matrix times a zero matrix will be another zero matrix (possibly the same size, not always).
- $(A^T)^T = A$
- $(A+B)^T = A^T + B^T$
- $(AB)^T = B^T A^T$

Finally, we get to some exercises.

Section 1.2: 1.b), 3.b), 4.bdfh) Section 1.4: 1.bdf), 2.bdfg), 4.

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