(f) $\begin{pmatrix} -2 & 7 \\ 5 & 0 \\ 1 & 1 \\ 4 & -6 \end{pmatrix}$.

(g) $\begin{pmatrix} 5 & 6 & 7 \end{pmatrix}$.

(h) $\begin{pmatrix} -4 & 0 & 6 \\ 0 & 1 & -3 \\ 6 & -3 & 5 \end{pmatrix}$ with tr= 2.

3. Let $M = aA + bB$ and $N = aA^t + bB^t$. Then we have $M_{ij} = aA_{ij} + bB_{ij} = N_{ji}$ and so $M^t = N$.

4. We have $A^t_{ij} = A_{ji}$ and so $A^t_{ji} = A_{ij}$.

5. By the previous exercises we have $(A + A^t)^t = A^t + (A^t)^t = A^t + A$ and so it's symmetric.

6. We have that $\text{tr}(aA + bB) = \sum_{i=1}^n aA_{ii} + bB_{ii} = a\sum_{i=1}^n A_{ii} + b\sum_{i=1}^n B_{ii} = a\text{tr}(A) + b\text{tr}(B)$.

7. If A is a diagonal matrix, we have $A_{ij} = 0 = A_{ji}$ when $i \neq j$.

8. Just check whether it's closed under addition and scalar multiplication and whether it contains 0. And here s and t are in $\mathbb{R}$.

    (a) Yes. It's a line $t(3, 1, -1)$.

    (b) No. It contains no $(0, 0, 0)$.

    (c) Yes. It's a plane with normal vector $(2, -7, 1)$.

    (d) Yes. It's a plane with normal vector $(1, -4, -1)$.

    (e) No. It contains no $(0, 0, 0)$.

    (f) No. We have both $(\sqrt{3}, \sqrt{5}, 0)$ and $(0, \sqrt{6}, \sqrt{3})$ are elements of W_6 but their sum $(\sqrt{3}, \sqrt{5} + \sqrt{6}, \sqrt{3})$ is not an element of W_6.

9. We have $W_1 \cap W_3 = \{0\}$, $W_1 \cap W_4 = W_1$, and $W_3 \cap W_4$ is a line $t(11, 3, -1)$.

10. We have W_1 is a subspace since it's a plane with normal vector $(1, 1, \ldots, 1)$. But this should be checked carefully. And since $0 \notin W_2$, W_2 is not a subspace.

11. No in general but Yes when $n = 1$. Since W is not closed under addition. For example, when $n = 2$, $(x^2 + x) + (-x^2) = x$ is not in W.

12. Directly check that sums of two upper triangular matrix and product of one scalar and one upper triangular matrix are again upper triangular matrices. And of course zero matrix is upper triangular.

13. It's closed under addition since $(f + g)(s_0) = 0 + 0 = 0$. It's closed under scalar multiplication since $cf(s_0) = c0 = 0$. And zero function is in the set.

Linear Algebra Friedberg Solutions Chapter 1

Stanley Gudder

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