Week # 4 - Topics

§ 1.1 Abstract vector spaces; common vector spaces: $\mathbb{R}^n$, $\mathbb{R}_n$, $M(m,n)$, $\mathcal{P}_n$, $\mathcal{P}$, $\mathcal{C}(I)$, $\mathcal{C}^k(I)$, $\mathcal{C}^\infty(I)$, $\mathcal{F}(\mathbb{R})$.

§ 1.4 Subspaces; **Subspace Theorem**; **NOT a Subspace Theorem**; special subspaces associated with $m \times n$ matrix A: Null Space, Column Space, Row Space.

Chapter Summary