

## Week # 6 - Topics

§ 2.2 Basis; Standard Basis for  $\mathbb{R}^n$ ,  $M(m, n)$ ,  $\mathcal{P}_n$ ,  $\{0\}$ ; **Nonzero Rows Theorem**; basis for **Col** ( $A$ ), **Row** ( $A$ ) and **Null** ( $A$ ); **Dimension Theorem**; dimension of a vector space  $V$ ; “dim  $V = N$ ” Theorem; simple application to differential equations.

## Exam Review

---