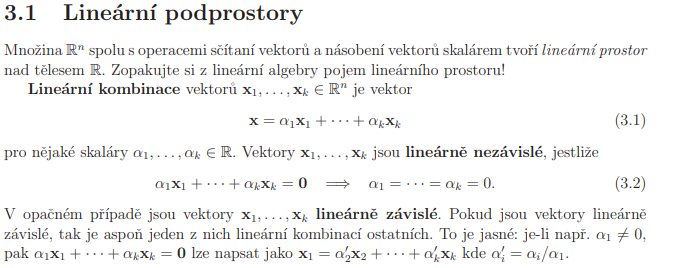
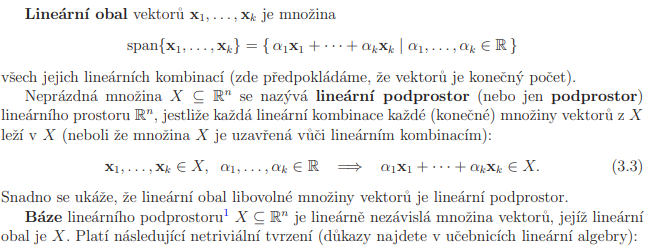
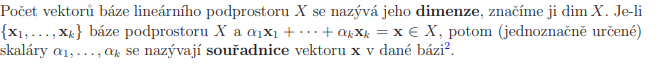
I5 - OPT – Optimalizace

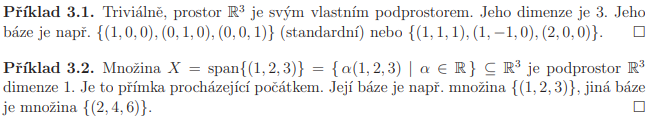
**Použití lineární algebry v optimalizaci: lineární podprostory a zobrazení, ortogonální projekce na podprostor, metoda nejmenších čtverců, spektrální rozklad a kvadratické funkce, prokládání bodů podprostorem.** <https://cw.fel.cvut.cz/b201/courses/b0b33opt/start>

## Lineární podprostory a zobrazení:

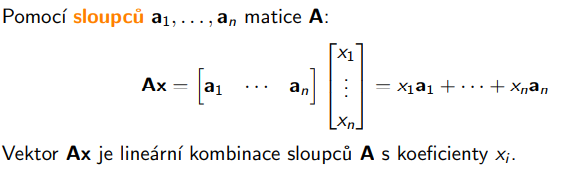


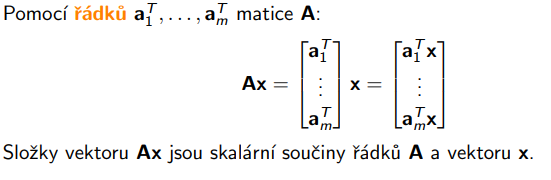


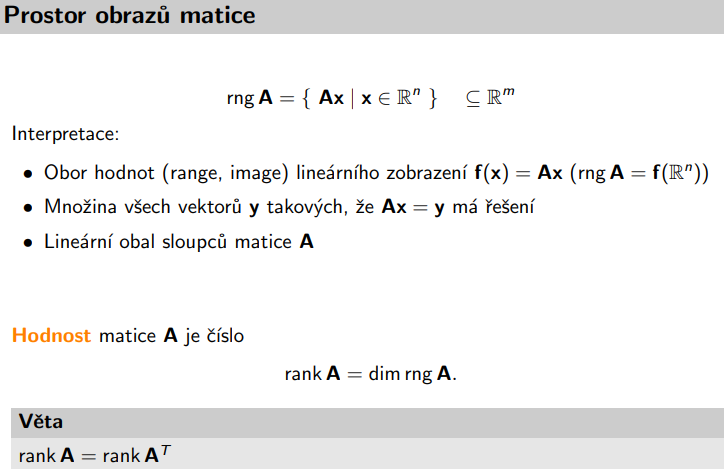


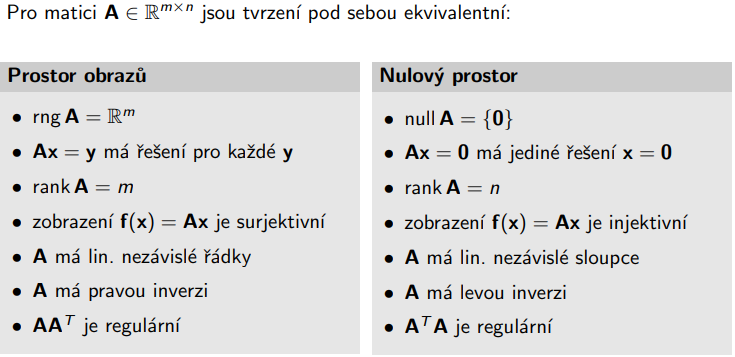
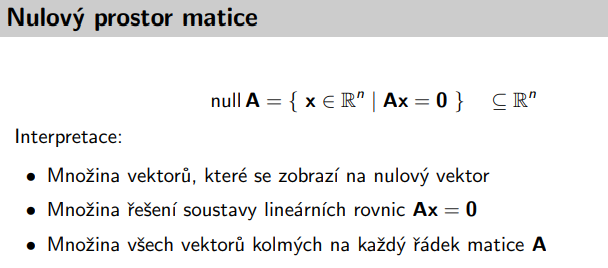


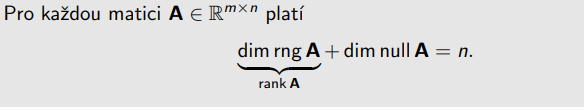
## 

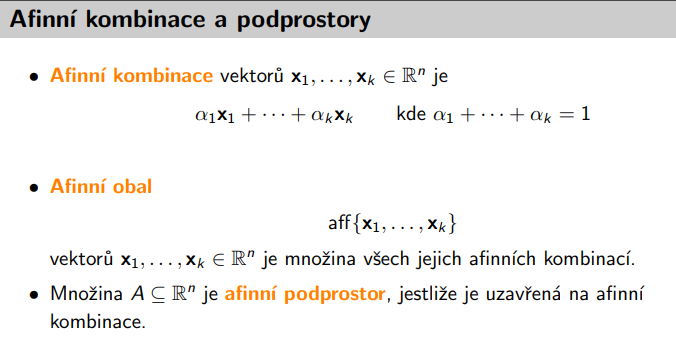


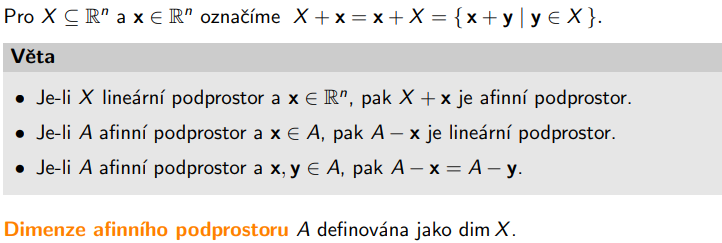


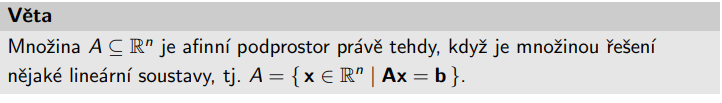


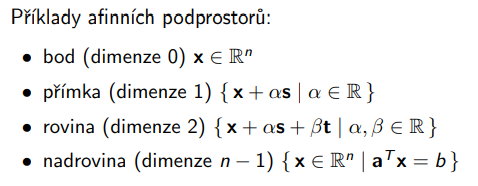


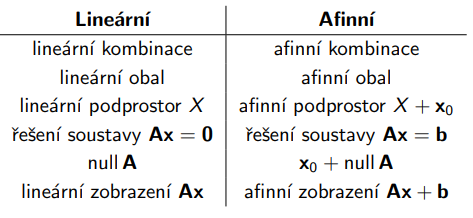


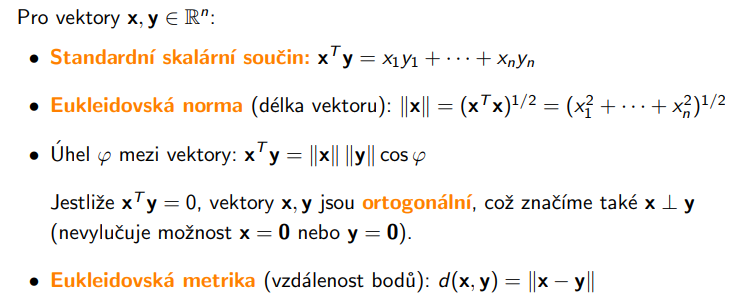


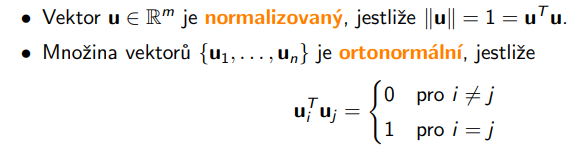


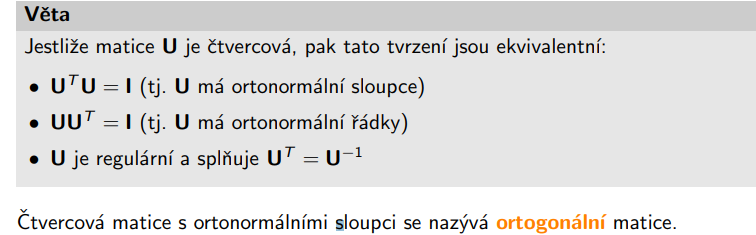


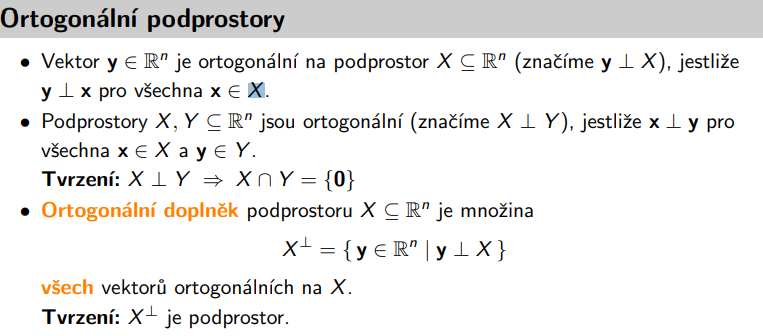


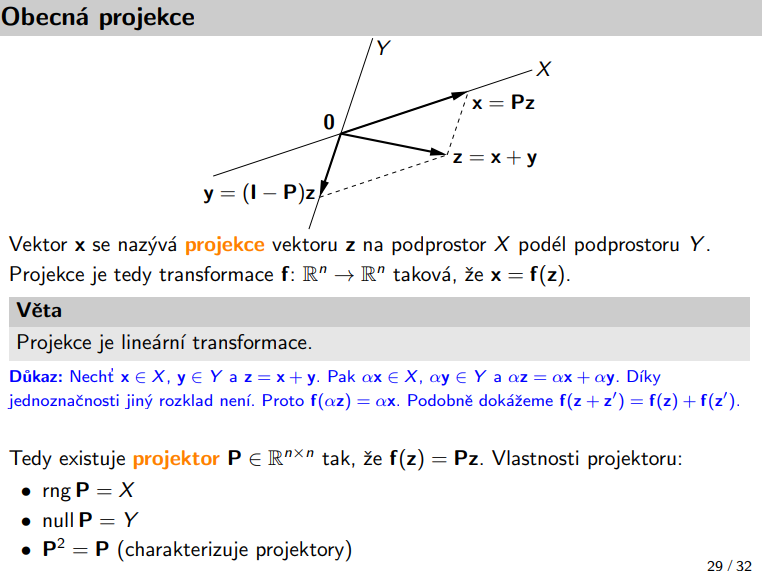


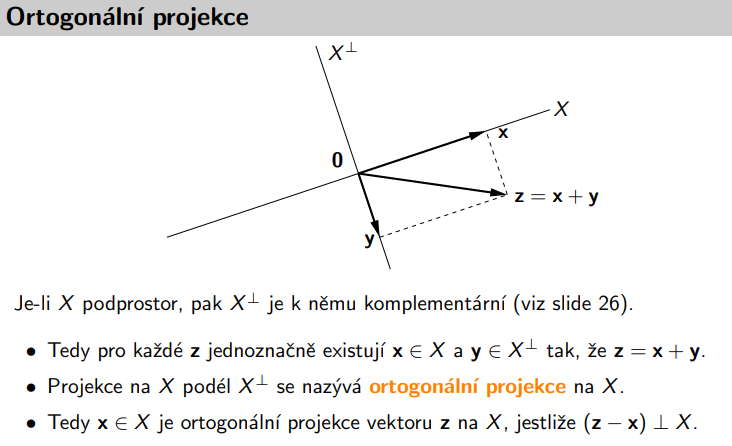


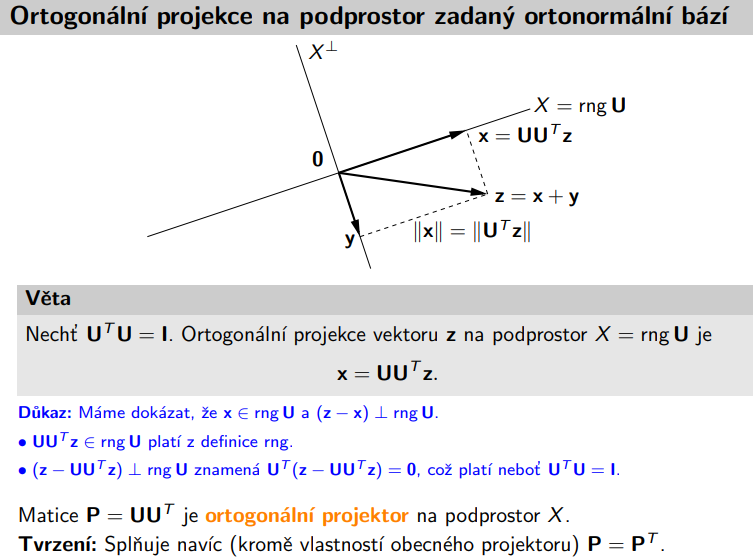


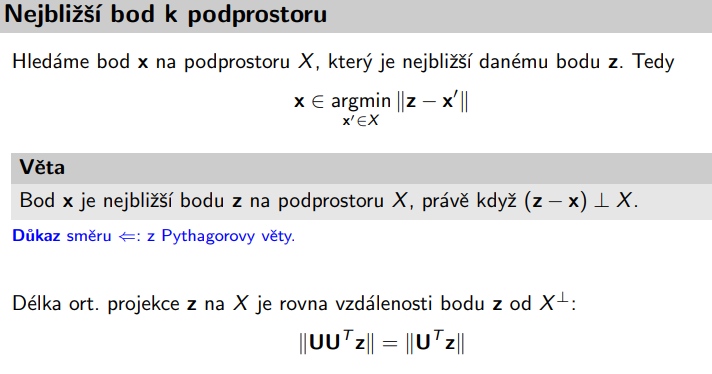






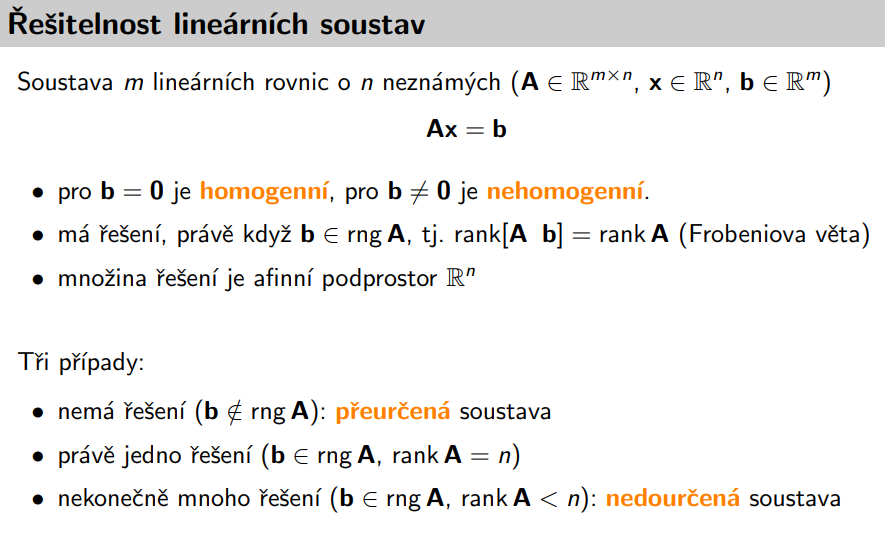


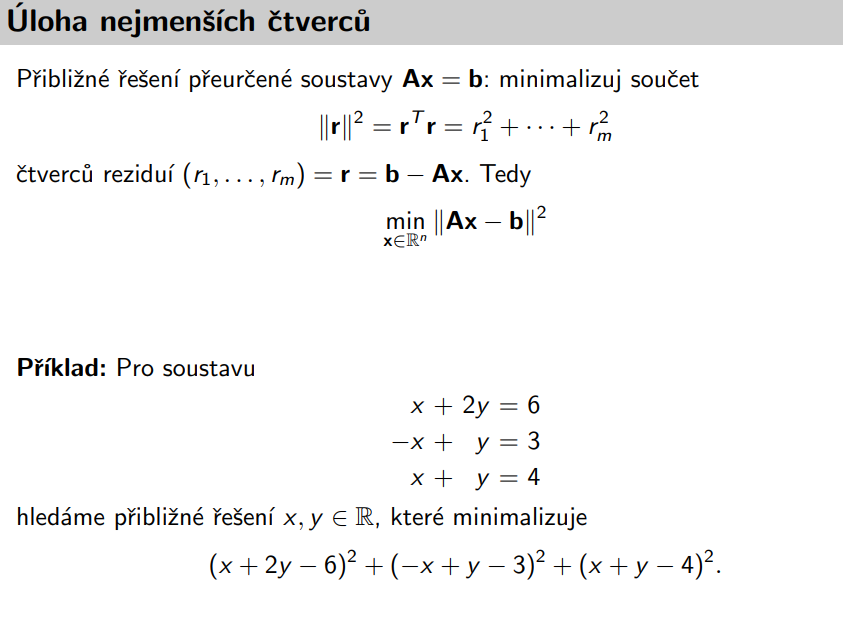


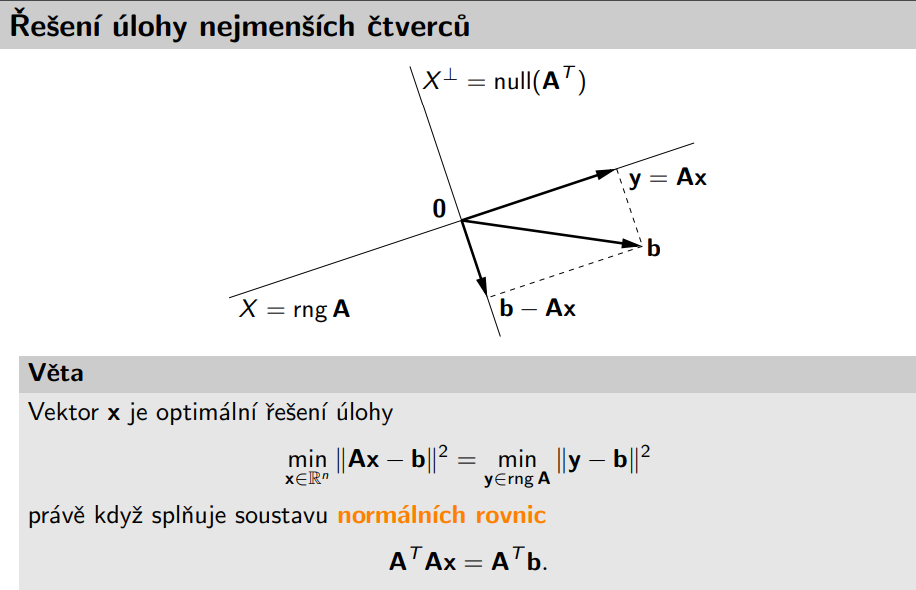


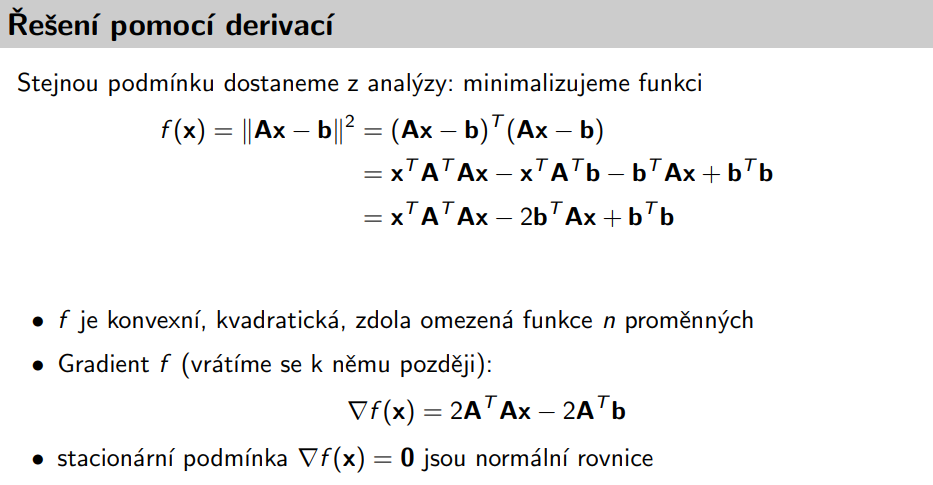
## Metoda nejmenších čtverců:

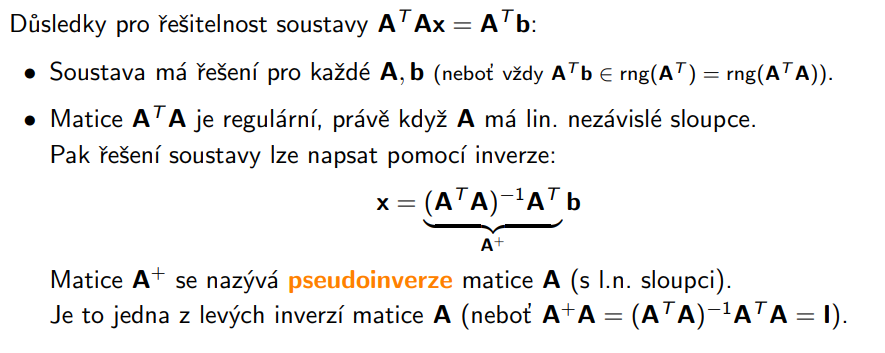
Na tohle téma je to celá přednáška víc dopodrobna here, důležité je snad i tady: <https://cw.fel.cvut.cz/b201/_media/courses/b0b33opt/03ls.pdf>

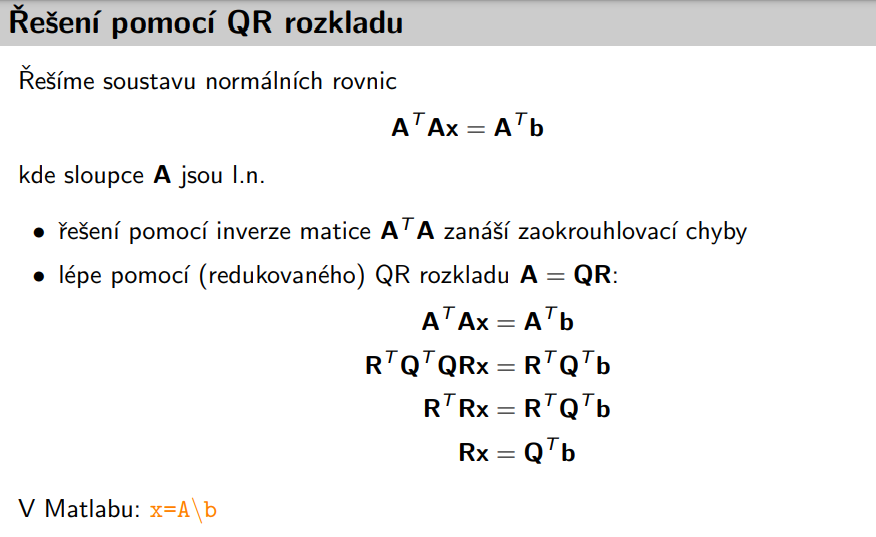


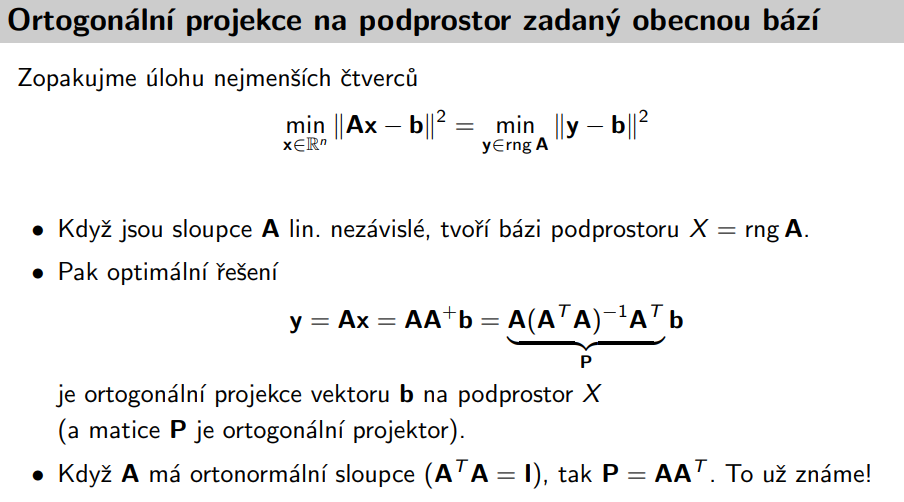


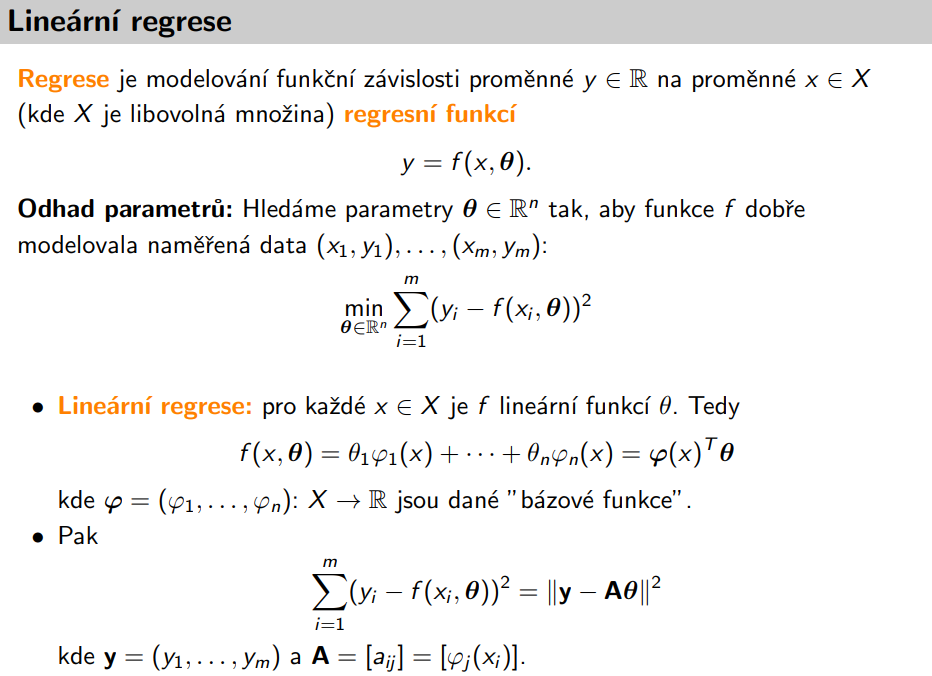


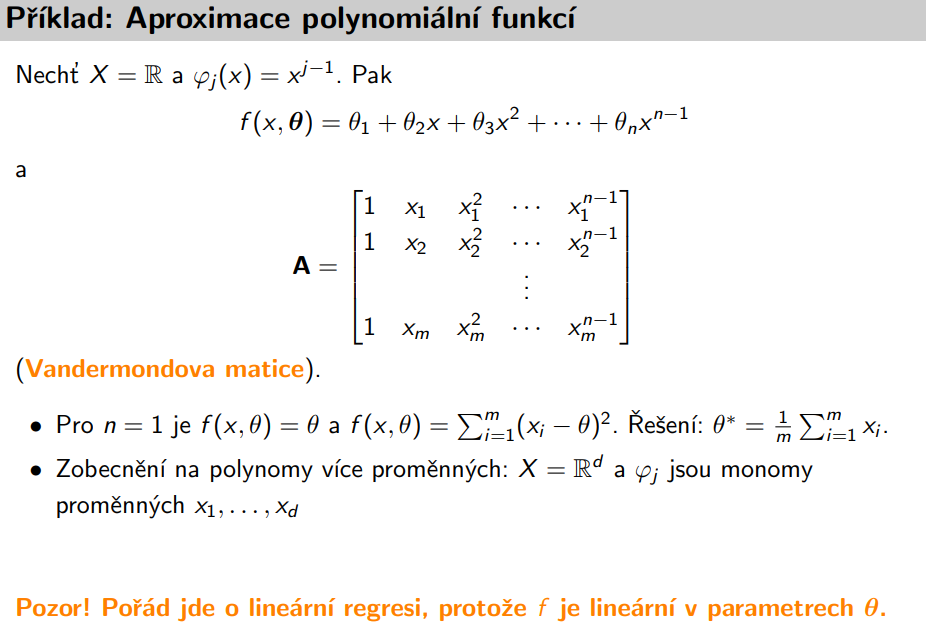




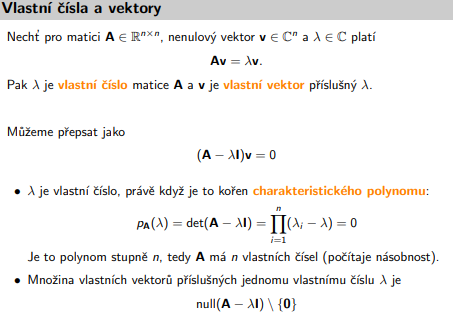


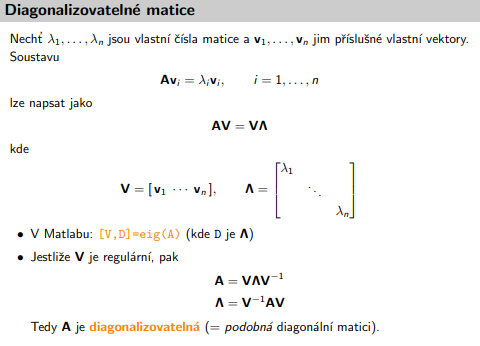
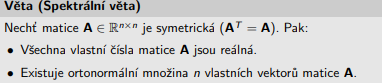


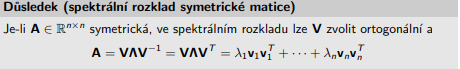


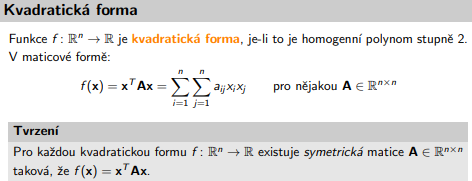


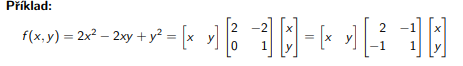
## Spektrální rozklad a kvadratické funkce:

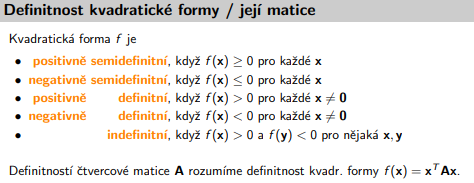


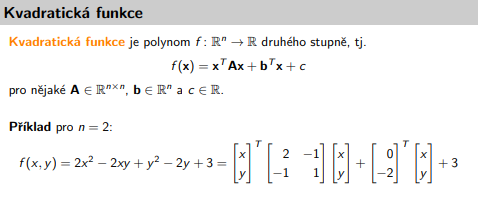
 

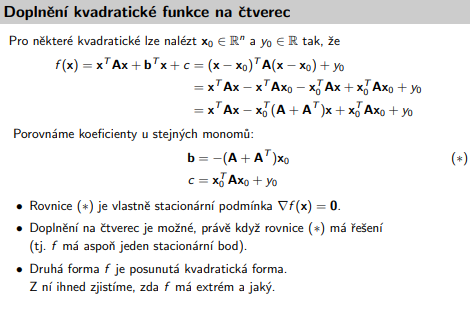


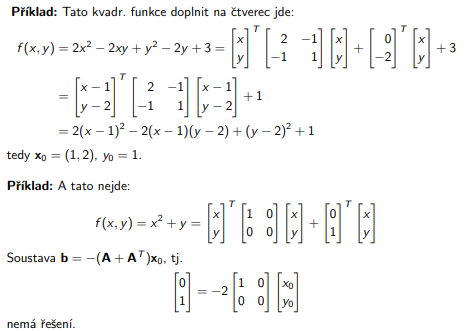












## Prokládání bodů podprostorem:

