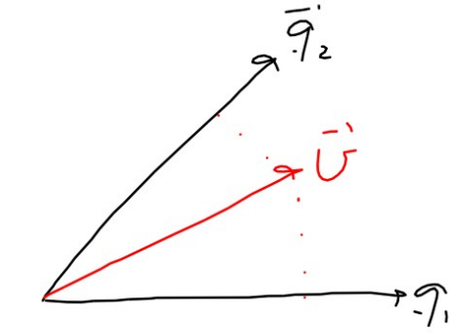
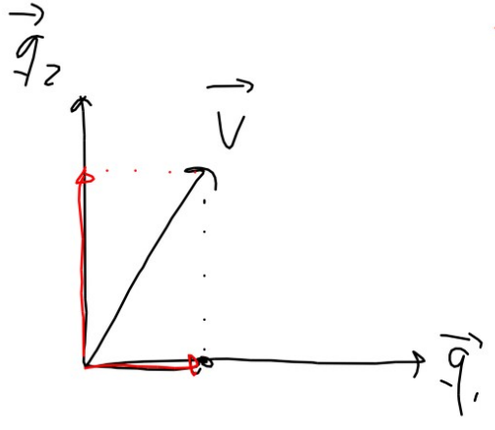
F15/

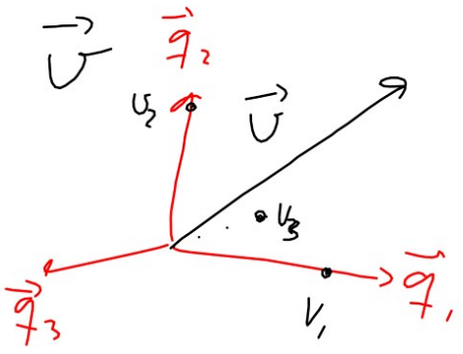
Oral exam: 12. Dec & 16. Dec

We are using classrom 301 (regular one)

Pensum is all up to INS. Everything written on the whiteboard

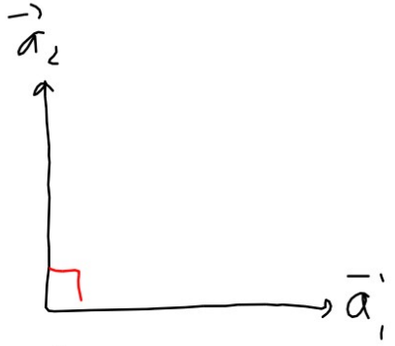






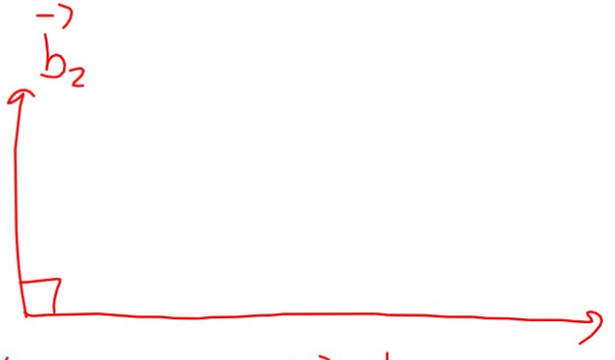
$$\vec{v} = v_1^1 \vec{q}_1 + v_2^1 \vec{q}_2 + v_3^1 \vec{q}_3$$

$$\underline{v}^q = \begin{bmatrix} v_1^q \\ v_2^q \\ v_3^q \end{bmatrix}$$



$\|\vec{a}_1\| = \|a_2\| = 1$

$\{a\}$ is orthonormal



$\|b_2\| = 1 \;,\; \|\vec{b}_2\| \neq 1$

$\{b\}$ is orthogonal

$$y^q = A^q x^q$$

$$y^q = \underbrace{C_p^q A^p C_q^p}_{A^q} x^q$$

$$R_q^p = \left[q_1^p \;,\; q_2^p \;,\; q_3^p \right]$$

$$\underline{x}^{a} = C_{b}^{a}\,\underline{x}^{b} \qquad \underline{y}^{b} = C_{b}^{a}\,\underline{x}^{b}$$