

Pr. 2 vzd. přímek v \mathbb{R}^3

$$p: \overset{A}{[-4, 5, 5]} + t \overset{v}{(1, -1, 0)}$$
$$q: \underset{B}{[1, 6, 8]} + s \underset{w}{(0, 2, -1)}$$

$$\begin{pmatrix} 1 & -1 & 0 \\ 0 & 2 & -1 \end{pmatrix} \begin{pmatrix} 1 \\ 1 \\ 2 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}$$
$$m = (1, 1, 2)$$

$$\vec{AB} \rightsquigarrow \underline{2m} = (2, 2, 4)$$

$$\|2m\| = \left\{ \begin{array}{l} 2 \|m\| = 2 \sqrt{1^2 + 1^2 + 2^2} = 2\sqrt{6} \end{array} \right.$$

$$A + av + bm = B + cw \quad av + bm + cw = B - A$$
$$C = A + 3v = [-1, 2, 5] \quad a = 3 \quad c = -1$$
$$D = B - w = [1, 4, 9]$$

\overline{CD} ... osa mimoběžek

