

Termín na odovzdanie: najneskôr v **stredu** 22. apríla 2020.

**Zadanie:** Zistite vzdialenosť priamky  $p$  a roviny  $\alpha$  v priestore  $(\mathbb{R}^4, \mathbb{R}^4)$ .

A

$$p \equiv \begin{cases} x_1 = t \\ x_2 = 1 - t \\ x_3 = 2 - t \\ x_4 = 1; t \in \mathbb{R} \end{cases}$$
$$\alpha \equiv \begin{cases} x_1 - 2x_2 + x_3 + x_4 + 3 = 0, \\ x_1 - 3x_2 + 1 = 0. \end{cases}$$

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B

$$p \equiv \begin{cases} x_1 = -2 + 3t \\ x_2 = -1 + t \\ x_3 = 2 - t \\ x_4 = 1; t \in \mathbb{R} \end{cases}$$
$$\alpha \equiv \begin{cases} x_1 + 2x_2 - x_3 - x_4 - 1 = 0, \\ x_2 - x_3 - x_4 - 2 = 0. \end{cases}$$

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C

$$p \equiv \begin{cases} x_1 = 1 \\ x_2 = 0 \\ x_3 = 3 + t \\ x_4 = -1 - t; t \in \mathbb{R} \end{cases}$$
$$\alpha \equiv \begin{cases} -2x_1 + 2x_2 - 4x_3 + x_4 - 5 = 0, \\ x_1 - x_2 + 2x_3 + 3 = 0. \end{cases}$$

A: BB, ŠG, RJ, DR, PŠ, JŽ, LBo, JB, ,

B: MJ, DP, JT, LBe, XH, RP, KS, ZV, , ,

C: JK, SM, PP, PH, MI, MP, MV, OŠ,