AI20MTECH14010

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Abstract—**This document aims to identify subspaces of a given vector space.**

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1 QUESTION

Which of the following are subspaces of the vector space $\mathbb{R}^3$?

1) $(x, y, z) : x + y = 0$
2) $(x, y, z) : x - y = 0$
3) $(x, y, z) : x + y = 1$
4) $(x, y, z) : x - y = 1$

2 ANSWER