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

Download all python codes from

https://github.com/anjanavasudevan/ grad_schoolwork/tree/master/EE5609/ Assignment7/Code

and latex-tikz codes from

https://github.com/anjanavasudevan/ grad_schoolwork/tree/master/EE5609/ Assignment7/Latex

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