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Examples of Vector Spaces

Explain why the following sets of three-by-one matrices (with real number scalars) are vector spaces:

- (a) The set of three-by-one matrices with zero in the first row;
- (b) The set of three-by-one matrices with first row equal to the second row;
- (c) The set of three-by-one matrices with first row a constant multiple of the third row.



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