Source:

A quotient space is similar to a modulo because both take some subpart of the structure and smoosh it to zero.

1 | looking at V/U

- 1.1 | set of affine subsets (\$\{ v+U : v \(\) \\})
- 1.2 | "modding out by U" (a subspace) means it gets collapsed to zero
- 1.2.1 |could just "call the line zero" or carry the entire thing as an element
- 1.2.2 | these are NOT subspaces because most of them don't include zero!
- 1.3 | V/U is isomorphic to the perpendicular line

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