Source: [KBe2020math530floIndex]

1 | Span

Smallest/largest containing subspaces

- Spans are not the largest vector space that contains the given vectors Pasted image 20200924131215.png
- The span of that vector is a line. It's a subspace. But it's not the biggest, because there's also R^2

Spans tend to be infinite

- Usually a span has infinitely many vectors (unless you're in a weird field (modulo) or have the zero span)
- In the span of just one vector, you can multiply by any scalar which there tends to be infinite of Pasted image 20200924131215.png
- The span of that vector is a line. It's a subspace. But it's not the biggest, because there's also R^2

Exr0n · 2020-2021 Page 1