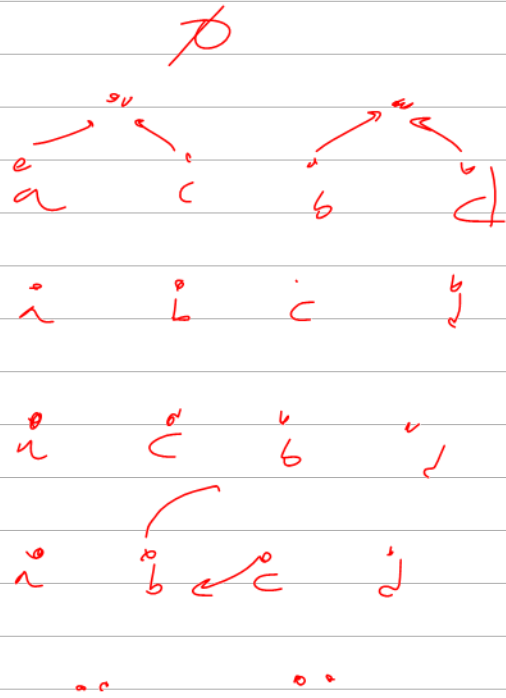
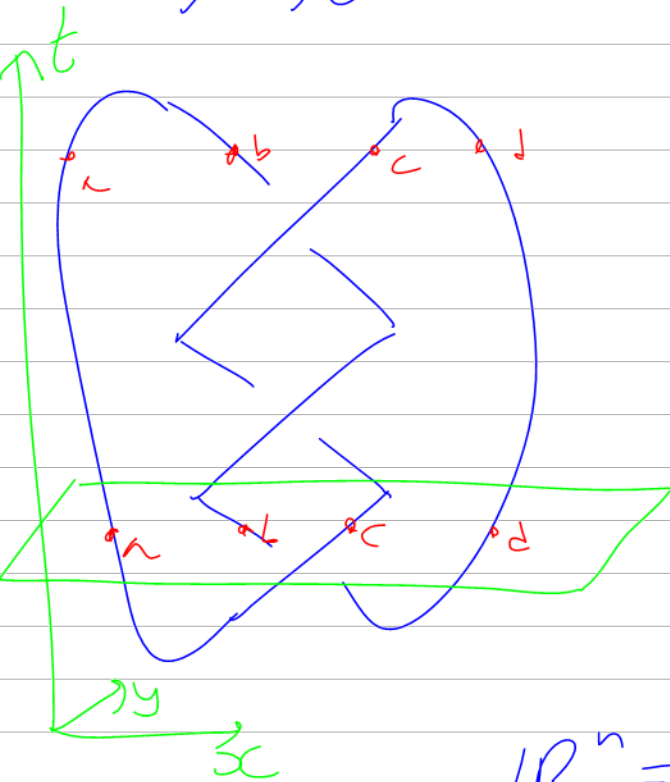
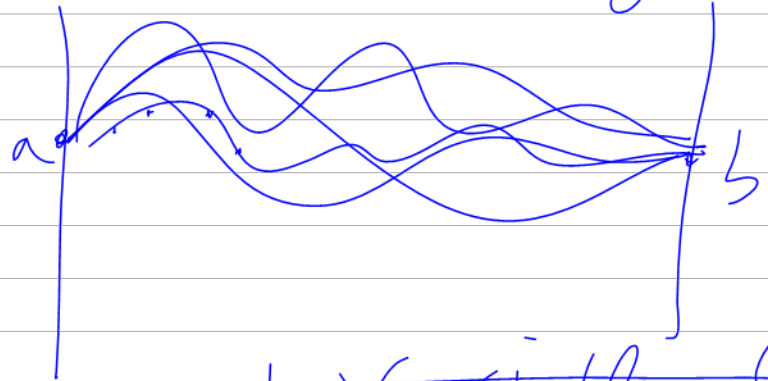


$$\lim_{z \rightarrow \infty} e^{-z} = 0$$



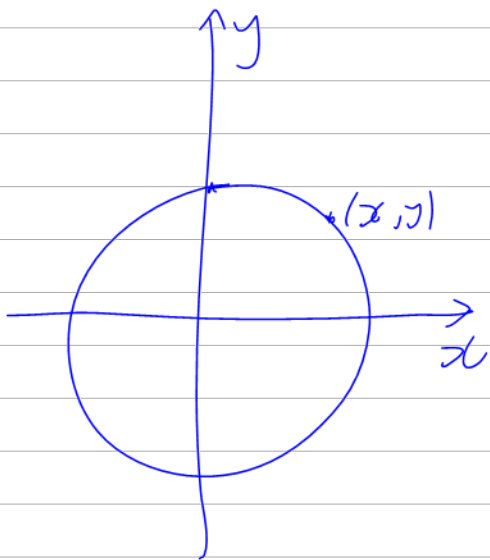
$$\mathbb{R}^n = \{(a_1, \dots, a_n)\}$$



~~t-variable~~
~~h-variable~~
 ∞ -dim

$$\int_{\mathbb{R}^2} e^{i k \int A^1 dA + \frac{2}{3} A^1 A^1 A^1} \text{hol}_g(A) \mathcal{D}A$$

Khovanov homology

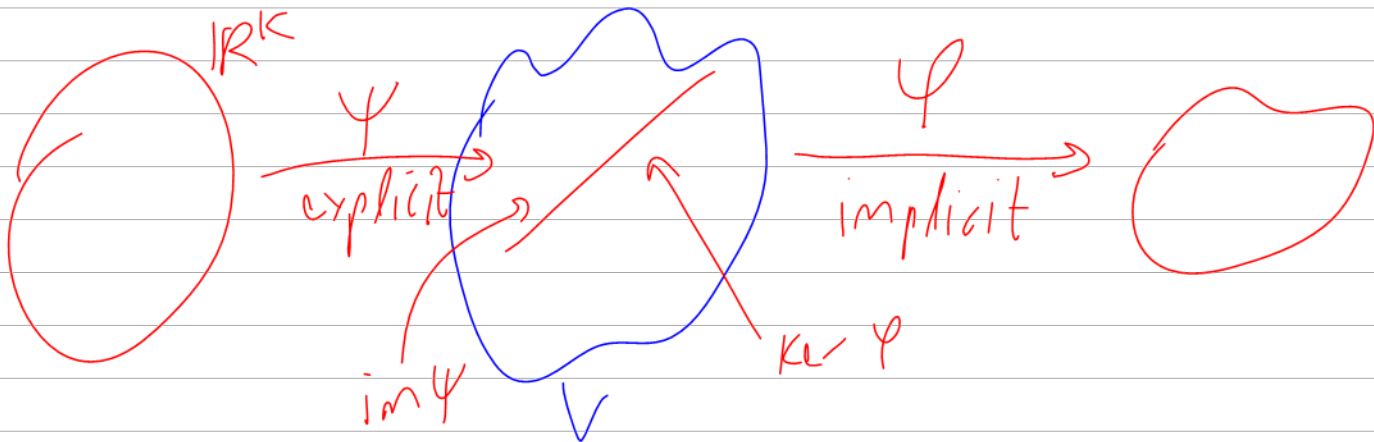


implicit: $x^2 + y^2 - 1 = 0$

explicit:

$$x = \cos \theta$$

$$y = \sin \theta$$



$$\text{im } \psi \subset \text{ker } \phi \quad \text{"exact"}$$

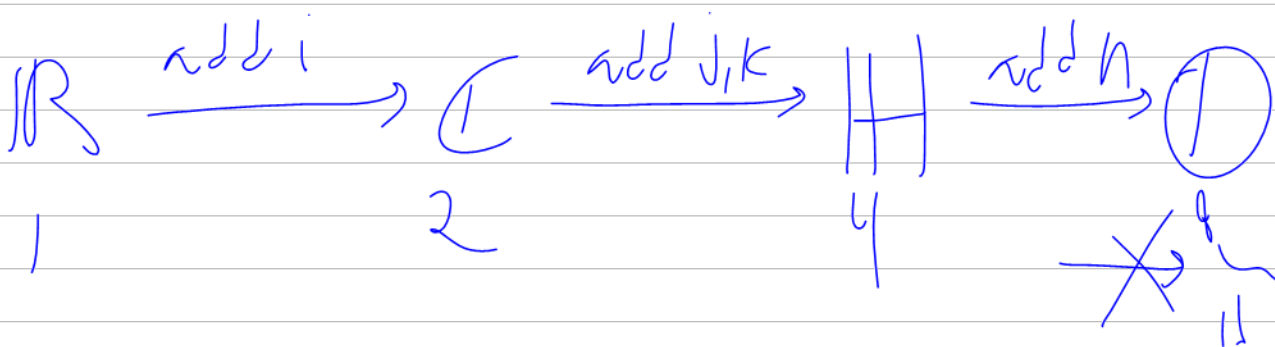
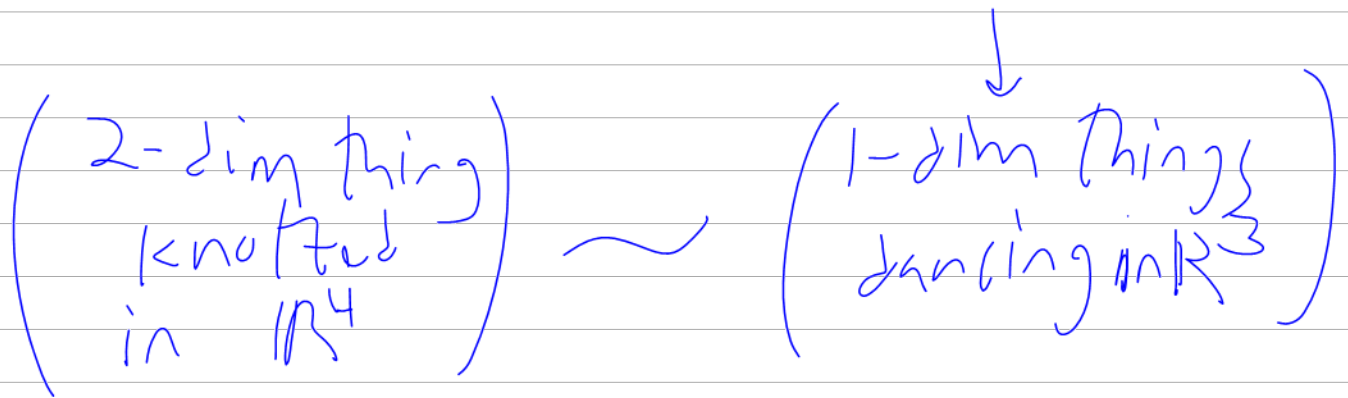
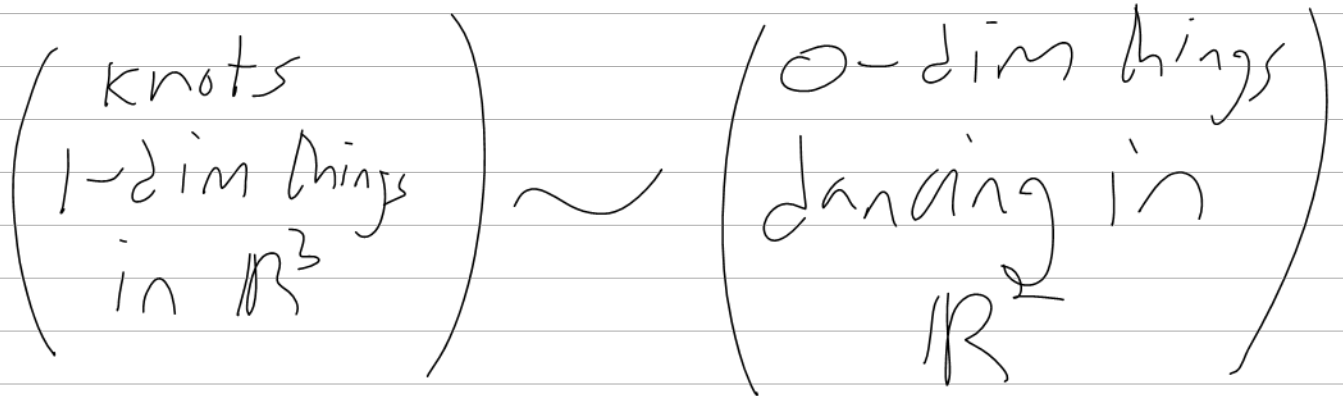
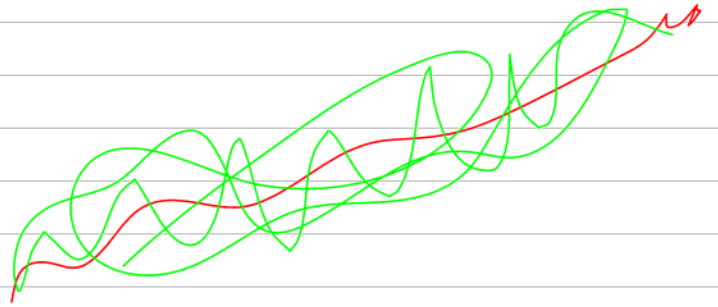
$$\frac{\text{ker } \phi}{\text{im } \psi} = \text{homology} = \text{measures}$$

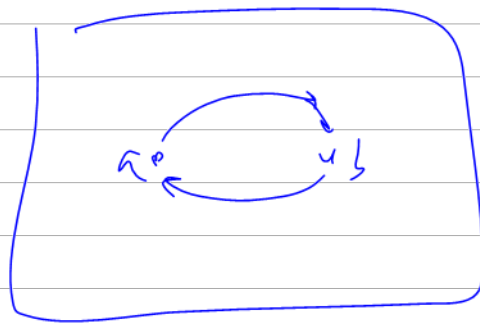
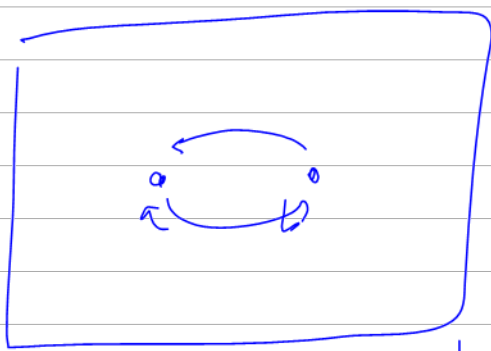
how good are your constructions
 motivation.

Let F be a Field. A set V is
 called a v.s. iF

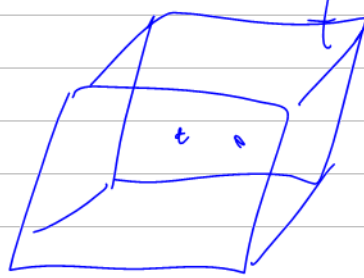
\vdots
 \vdots

15. $\alpha(pv) = \dots$





two distinct ways of trading places



all ways of trading places are equivalent

$SU(n)$ $SO(n)$ $Sp(n)$ G_2 F_4
 E_6 E_7 E_8

$SU(2) \sim SU(3)$

$10^6 \sim 10^{12} \sim 10^{15}$ 10^{100}
 ∞

(Free markets)* \nearrow Prisoner's dilemma

"The hardest
mathematics I've
ever really used"

