

- What is the field  $C\{\{t\}\}$  (field of complex Puiseux series)
- What is the tropicalisation  $\text{trop}(V(w - x^2y + xy^2)) \subseteq \mathbb{R}^3$  where  $w - x^2y + xy^2 \in K[w, x, y]$  where  $V$  is vanishing set (where polynomial is zero). (Draw a picture with an explanation). Come back to Yue when you've got the answer. How is it different where  $w - x^\alpha + x^\beta$ ,  $x^\alpha = x_1^{\alpha_1} \dots x_m^{\alpha_m}$ , similarly for  $\beta$ .

, Make notes in a Latex/typst file, based on things read from book, then can write up into a report at the end.