## Comprehension questions

Problem 25.1. In ordinary arithmetic, we have $a+(b+c)=(a+b)+c, a(b c)=(a b) c$, $a(b+c)=a b+a c$. Do the analogues of these rules hold in the tropical numbers?
Problem 25.2. What's the tropicalization of $x^{2}-y^{2}=0$, and what does its solution set look like?

Problem 25.3. What's the tropicalization of $1+x^{3}+y^{3}-s x y=0$, and what does its solution set look like?

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### 18.900 Geometry and Topology in the Plane

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