## Algebraic Methods in Kinematics Homework 3

Compute the mixed volume of two rectangles. Use Bezout's Theorem for $\mathbb{P}^{1} \times \mathbb{P}^{1}$ for the common zeroes of two equations of bidegree $\left(a_{1}, b_{1}\right)$ and $\left(a_{2}, b_{2}\right)$, and compare with the BKK Theorem.

