Week 8 Friday

Make sure you know your neighbors' names, and then:

Remind yourself and your neighbors what $\mathbb{P}^n(k)$ is. What are its elements? Do you remember what it means to say that a point of $\mathbb{P}^n(k)$ has many coordinate representations?

Projective Varieties

1. Show that $\phi(a : b) = (a^2 : ab : b^2)$ is a well-defined injective function whose image is equal to $V(xz - y^2) \subseteq \mathbb{P}^2$.