Here are some corrections that were necessary, in Lecture 22.

On page 142, change the last 7 lines to the following: Let  $\sigma$  be an  $\equiv_{2m^2}^k$ -equivalence class, and  $\tau$  an  $\equiv_m^{k+1}$ -equivalence class. Let  $a \in \sigma \subseteq \mathbb{R}^k$ . We say that  $\tau$  is consistent with  $\sigma$  via a if there exists an  $a' \in \mathbb{R}$  such that  $(a, a') \in \tau$ .

**Lemma 22.4:** Let  $a \in \mathbb{Q}^k$ , and let  $\sigma$  be the  $\equiv_{2m^2}^k$ -equivalence class of a. The set

$$\{(a, f(a)/c) : f \in A^k_{2m^2}, |c| \le 2m^2, c \in \mathbb{Z}\}$$

contains a representative of every  $\equiv^{k+1}_m$  -equivalence class that is consistent with  $\sigma$ via a.