## Exercises on standard conjectures and correspondences

- (1) Let Z= 1/4 Z' In some 2: 1/x X -> /x/X

  Prove [Z]\_x = [Z']\_oi\*, [Z]\*= 1/4 o [Z']\*
- (2) Prove that if X verifies Lefschetz in deg  $\leq k-2$  then  $H^{K}(X) \rightarrow L^{i}H^{K-2i}(X)$  prim is algorithm. Use this to construct s
- (3) Prove that Hom=Num > Lefschutz.