

**MATH 595 Thursday 18 January**  
**Blow-ups**

- (1) Chapter II, Exercise 7.11 (a) and (b).

*Hint: Use Exercise 5.13.*

- (2) Chapter II, Exercise 7.12.

*Hint: Suppose towards a contradiction that  $P$  is a point in the intersection. Choose an affine neighbourhood of  $\pi(P)$  and work out the definitions of the strict transforms over that neighbourhood. What is the condition for  $P$  to be in each strict transform? Why can  $P$  not be in both?*