This is the second set of exercises, based on the material in Chapter II in Silverman's book.

(1) Do all details in Example 3.3 and Example 4.6 in Chapter II of Silverman's book.
(2) Read the definition of ramification index on page 23 in Chapter II, then do Exercise 2.2
(3) Exercise 2.5
(4) Exercise 2.8 (Hint: Hurwitz' formula).

Note that the last two exercises are more "theoretical", they point out non-obvious properties of the projective line and morphisms of smooth curves, respectively. You may want to wait until after the lecture on Tuesday 04.09 before you try these.