You will *not* be asked to prove the results below on the final exam:

1. Conjugacy is an equivalence relation.

2. Be able to construct the field of quotients of an integral domain and verify that the operations are well defined.

3. For any ring R, and any element a of R, $a \cdot 0 = 0$.

4. A polynomial of degree at most 3 in $F[x]$ is irreducible over F if and only if it has no zeros in F.

5. The Rational Root Theorem.

6. If $F \subset K \subset E$ are fields and $[E : K]$, and $[K : F]$ are finite, then
   $[E : F] = [E : K][K : F]$.