

Warm up problems; **do not turn them in;**  
*Read all the statements.*

1. Apostol II, 3.11 : 1.
2. Apostol II, 4.4 : 1.
3. Apostol II, 4.8 : 1, 3, 12, 14.
4. Apostol II, 4.10 : 5.

*Due in class February 12, 2009.*

1. Apostol II, 3.11 : 2.
2. Apostol II, 4.4: 3, 5, 6, 11.
3. Apostol II, 4.8 : 6, 10.
4. Apostol II, 4.10 : 1, 2.
5. Show that that  $\det(AB) = \det(A) \det(B)$  using elementary matrices.