Chapter 9

- 1.) Since $(123)H = \{(123)(1), (123)(12)\} = \{(123), (321)\} \neq H(123) = \{(123), (132)\}, H \text{ is not a normal subgroup of } S_3. \blacksquare$
- 2.) awd
- 11.) awd
- 12.) awd
- 37.) awd