7.1 (10 points) Goldstein 9.7
Part (b) should read “Find a generating function of the $F_3$ type for the identity transformation and of the $F_4$ type for the exchange transformation.”

7.2 (10 points) Goldstein 9.23

7.3 (10 points) Goldstein 9.25

7.4 (10 points) Goldstein 9.39

7.5 (10 points) Challenge problem (a)

7.6 (10 points) Challenge problem (b)