Physics 225b Homework 6 (Show your work!)

1)Krane Chapter 13, problem 18

Also, show in general, the reaction $\gamma \to e^+e^-$ is not possible. You need to have the photon interact with another particle in order to conserve both energy and momentum.

2)Krane Chapter 13, problem 25

3)Krane Chapter 15, problem 8

4)Krane Chapter 15, problem 10

You will have to use the Maxwell-Boltzman distribution for this one.