From text, Chapter 1: 15, 26, 29, 32, 36, 43, 49, 53, 61, 68, 72, 81

Supplemental:

(a) The probability that you will sleep through class on any Tuesday or Thursday is 0.1. We meet 25 more times this semester. If your sleeping patterns on separate days are mutually independent, what is the probability that you will sleep through class at least once this semester?

(b) The events $A_1, A_2, A_3$ are mutually independent. Show that the events $A_1^c, A_2^c, A_3^c$ are also mutually independent.