IMM - DTU

02405 Probability 2003-10-13 BFN/bfn

## Solution for exercise 4.3.1 in Pitman

Question a) The survival function G(t) = P(T > t) is introduced and defined page 297

$$P(T \le b) = 1 - P(T > b) = 1 - G(b)$$

Question b)

$$P(a \le T \le b) = P(T \le b) - P(T < a) = G(a) - G(b)$$

 $(P(T < a) = P(T \le a)$  for a continuous distribution).