

## Solution for review exercise 33 (chapter 2) in Pitman

**Question a)** Throw the coin twice, repeat if you get two heads. The event with probability  $\frac{1}{3}$  now occurs if you got two tails, otherwise the complementary event occurred.

**Question b)** Throw the coin twice, repeat until you get one head and one tail. Then use  $HT$  or  $TH$  as the two possibilities.