

602_hw2

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3.1

a)

$$P(Y_1 = y_1, \dots, Y_{100} = y_{100} | \theta) = \text{by independence} = \prod_{i=1}^n P(Y_i | \theta) = \prod_{i=1}^n \theta^{y_i} (1-\theta)^{1-y_i} = \theta^{\sum_{i=1}^n y_i} (1-\theta)^{100 - \sum_{i=1}^n y_i}; y =$$