

Errata and updates for ASM Exam C/Exam 4 Manual (Eighteenth Edition Second Printing) sorted by page

- [1/22/2018] On page 25, in the solution to exercise 1.20, on the second line, change $E[X^4]$ to $E[(X - \mu)^4]$.
- [5/25/2017] On page 143, on the second and third lines of the answer to Example 8G, change 1.174 to 1.1774.
- [6/22/2018] On page 284, in the solution to exercise 16.2, on the last two lines, replace “unmodified frequency of 20” with “the reduced unmodified frequency of 16”.
- [7/24/2017] On page 315, in exercise 18.22, on the second-to-last line of the question, replace “expected claim amounts” with “expected aggregate claim amounts”.
- [5/16/2018] On page 358, 7 lines below the table, change $z_{(1-\alpha)/2}$ to $z_{1-\alpha/2}$. Make the same correction on page 359, one line below the boxed “The rest of this lesson...” and twice in equation (21.3). On the line after equation (21.3), the second $1 - \alpha$ should be a subscript of z .
- [6/19/2017] On page 477, in exercise 27.23(A), on the second line, change “as high than” to “as high as”.
- [2/6/2018] On page 487, replace the solution to exercise 27.32 with

Let X be the kernel-smoothed distribution. For our 20-component mixture,

$$\begin{aligned} E[X^2] &= \frac{1}{20} \sum_{i=1}^{20} E[X_i^2] \\ &= \frac{1}{20} \sum_{i=1}^{20} \alpha(\alpha + 1)\theta^2 \end{aligned}$$

θ is selected as X_i/α .

$$\begin{aligned} E[X^2] &= \frac{1}{20} \frac{\alpha(\alpha + 1)}{\alpha^2} \sum_{i=1}^{20} X_i^2 \\ &= \frac{6}{100}(42,204) = \boxed{2,532.24} \end{aligned}$$

- [5/18/2017] On page 507, in exercise 28.25, the question in the SOA sample is now question 74 instead of 73A.
- [3/15/2018] On page 689, on the first line, delete one of the two “than”s.
- [5/22/2018] On page 689, add the following after the table: “The data are fitted to a binomial distribution.”
- [6/12/2017] On page 720, in the solution to exercise 36.1, on the first line, change “to heavy” to “too heavy”.
- [5/8/2017] On page 751, on the fourth line, change “mean squared” to “mean” (delete the word “squared”).
- [6/18/2017] On page 792, one line below equation (39.1), change “likelihood” to “loglikelihood”.
- [1/9/2018] On page 794, in the table for exercises 39.6 and 39.7, change the exponential negative likelihood 425.3 to 423.3.
- [6/18/2017] On page 799, in the solution to exercise 39.7, change the AIC calculation for Exponential to “425.3 + 1 = 426.3”.
- [5/23/2018] On page 839, in the solution to Quiz 41-1, on the second line, change “Exposure units” to “Policyholder years”.

- [7/7/2017] On page 904, two lines below the fifth displayed line, change $E[X_{n_1} | \theta]$ to $E[X_{n+1} | \theta]$.
- [5/16/2017] On page 1065, on the fourth line of the fourth paragraph, delete the words "observations a weight of 3/12."
- [6/2/2017] On page 1236, in the solution to exercise 62.16, on the first line, add "be" between "not" and "a".
- [10/15/2017] On page 1442, in the solution to question 24, on the last line of the page, delete the 0 after the equals sign.
- [6/13/2018] On page 1449, in the solution to question 6, on the fifth line of the page, change $F(x_i)$ to $S(x_i)$.
- [10/29/2017] On page 1457, in the solution to question 30, on the third line, add a right parenthesis "after $x = 3$ ".
- [10/29/2017] On page 1462, on the fourth line, change "fourth power" to "fourth root".
- [9/6/2017] On page 1463, in the solution to question 15, on the first line, change "age-0" to "age-30".
- [4/26/2018] On page 1476, in the solution to question 16, on the first line, change "30th" to "20th".
- [11/6/2017] On page 1601, in the solution to question 29, on the sixth line, change (α) on the left side of the equation to $l(\alpha)$.
- [11/6/2017] On page 1601, in the solution to question 30, on the last line of the page, delete the first 1 on the right side of the equation.
- [6/23/2017] On page 1601, in the solution to question 22, on the first displayed line, add a sum sign after the big bracket: $\sum m_i(x_i - \bar{x})^2$.