

Errata and Updates for ASM Exam IFM (First Edition Fourth Printing) Sorted by Date

- [9/18/2021] Sections B.2 and B.3 contain solutions to CAS exams that are no longer posted on the web. The relevant questions, along with (unchanged) solutions, can be found here.
- [9/3/2021] On page 95, in the solution to exercise 7.2, on the fourth line, change 0.18 to 0.08.
- [7/11/2021] On page 3, on the second line, change the comma after “value” to a period.
- [7/11/2021] On page 106, replace the solution to exercise 8.6 with
APT can use various risk factors, and does not have to use the market portfolio, so I is true and II is false. However, its structure is more complicated than CAPM, which just uses one factor. **(A)**
- [7/11/2021] On page 133, in the solution to exercise 11.8, on the fourth line, change “beta of distress costs” to “rate of return of distress costs”. On the fifth line, change $(1 - (-0.12))$ to $(1 + (-0.12))$.
- [7/11/2021] On page 475, in the solution to exercise 29.27, 4 lines from the end, move the last right parenthesis to the end of the line so that it reads

$$= \Pr(\ln Q(2) + 2 \ln Q(3) > 0)$$
- [7/11/2021] On page 481, in exercise 30.3, on the last line of the paragraph beginning with “2.”, change “flowx” to “flows”.
- [7/11/2021] On page 488, 3 lines above the paragraph beginning with “2. *Guaranteed*”, change “MDBG” to “GMDB”.
- [7/11/2021] On page 489, 4 lines above Section 31.3, change “strike price R ” to “strike price $B + C$ ”.
- [7/11/2021] On page 510, in question 21, in answer choice (D), change “i” to “I”.
- [7/11/2021] On page 513, in question 4, on the first line of the matrix, change 0,32 to 0.32 (change the comma to a period).
- [7/11/2021] On page 542, change question 15(v) to $\text{Var}(\ln F_{0.25-t, 0.25}^P(S)) = 0.09t$.
- [7/11/2021] On page 602, in the solution to question 16, on the third displayed line and on the second-to-last displayed line, change $-d2$ to $-d_2$, once on each line.
- [7/11/2021] On page 629, in the solution to question 15, in the second sentence, change “variance of a prepaid forward” to “variance of the logarithm of a prepaid forward”.
- [11/12/2020] On page x, on the third line under the heading “The normal distribution table”, change the link to <https://www.prometric.com/soa>.
- [8/12/2020] On page 113, replace the solution to exercise 9.4 with
In the first year, investors receive a 20,000,000 free cash flow but have to repay the 10,000,000 loan with 4% interest. Net cash flow in the first year is $20,000,000 - 10,000,000 - 400,000 = 9,600,000$. In the second year, investors receive 15,000,000. They paid 20,578,512 at the start of the project. We therefore have to solve for v such that

$$9,600,000v + 15,000,000v^2 = 20,578,512$$

Solving the quadratic, we get $v = 0.894208$, so the rate of return is $1/0.894208 - 1 = \boxed{0.11831}$.
- [6/15/2020] On page 16, in the solution to exercise 2.12, on the third line from the end, change $\Pr(X > 10000)$ to $\Pr(X > 10000 | X > 8000)$.
- [6/3/2020] On page 625, solution to question 28, while the solution is correct, the strangle is a little strange in that the strike price of the call is less than the strike price of the put. So replace the first two sentences with:

A short butterfly spread is a short (K,L) bull spread plus a short (L,M) bear spread, or $P(L) - P(K) + C(L) - C(M)$. A straddle is $C(L) + P(L)$ and a strangle is $C(M) + P(K)$, so **(C)** works.

[3/15/2020] On page 133, replace the solution to exercise 11.9 with

The tax shield is worth $0.25(100,000,000)(0.06) = 1,500,000$. As usual, we discount this at the interest rate of the loan, or 6%. The present value of the tax shield is than $1,500,000/1.06 = 1,415,094$, or 0.1415094 per share. Since share price went up only 0.10, the value of financial distress is $0.0415094(10,000,000) =$
415,094.

[10/13/2019] On page 113, in the solution to exercise 9.6, on the displayed line, put parentheses around $\frac{1}{1.1} : \left(\frac{1}{1.1}\right)^k$.

[5/28/2019] On page 645, in the solution to question 25, on the second line from the end, change 7,83545 to 7.83545 (change the comma to a period).

[7/11/2012] On page 65, 6 lines from the bottom of the page, change 0.18q to 0.18b.