- 1. What is a main assumption of market model?
- 2. What is the intuitive meaning of $\mathbb{V}(r_{it}|r_{mt}) = \sigma_i^2 \frac{\sigma_{im}^2}{\sigma_{ro}^2}$?
- 3. What is the standard error of regression?
- 4. What is the meaning of the security market line's slope?
- 5. Is the estimation of market risk premium a model?
- 6. If Jensen's measure indicates inferior performance, so does Treynor's measure. True or False?
- 7. Information ratio is obtained by replacing the risk-risk rate with a benchmark of risky performance's return. True or False?
- 8. Let $\mathbf{X}'\mathbf{X} = \begin{pmatrix} -1 & 2 \\ 3 & -4 \end{pmatrix}$ and $\mathbf{X}'\mathbf{y} = \begin{pmatrix} -3 \\ 7 \end{pmatrix}$ What is the slope of the simple linear regression?
- 9. Continuing from Question 8, if the residual sum of squares is $\frac{1}{2}$ and the number of (paired) observations is 18. What is the standard error of the *y*-intercept estimate?
- 10. What is the dimension of matrix X in Questions 8 and 9?
- 11. What are your takeaways (new things learned and new insights and doubts)?