Review Exercises

Chapter 1

- 1. There are many wireless technologies and systems. Each of them generally is optimized for a specific transmission environment. Draw a figure, in which x-axis and y-axis represent the moving speed and data rate, respectively, to show their relationship.
- 2. What are the major differences between wireless LANs and PANs?
- 3. What are the major differences between low-tier and high-tier wireless systems?
- 4. Do you think public wireless LANs will replace 3G systems?
- 5. Which wireless systems are/were available in your country?
- 6. What does *license* mean in cellular networks? Why do we need it?
- 7. Briefly describe the major technical differences between 1G, 2G, and 3G systems.
- 8. Briefly describe the relationship between AMPS, IS-41, IS-136, and IS-95.
- 9. Briefly describe the major technical differences between 3GPP and 3GPP2 systems.
- 10. Why i-mode is successful in Japan? Provide your perspective.
- 11. What kinds of services and applications you would like to use in 3G systems?
- 12. What are the motivations for IP-based wireless networks?