

Answers for PS12

Note: the first two questions' material will not be included in the Final Exam.

Chapter 33

- 1a. Nancy: 4 miles per hour  
Michael: 9 miles per hour
- b. Nancy: 1 mile per hour  
Michael: 9 miles per hour
- c. Nancy: 4 mile per hour  
Michael: 4 mile per hour

Chapter 34

- 1a.  $200(90-p)$   
 $200(p-10)(90-p)$
- b. \$50
- c. 4000  
4000
- d. \$320000
- e. after two years  
after two years is better for students who take the course in the first year of publication and plan to sell. After one year is better for the other students.

Chapter 35

- 1 a. solve  $W_B=2(W_B-p_B)$  to get  $p_B=W_B/2$
- b. solve  $W_R=3(W_R-p_R)$ , which gives  $p_R=W_R/3$
- c. \$75