PART I: Chapter 5

$$MRTS_{\kappa_I} \neq \frac{w}{}$$

 $MRTS_{KL} \neq \frac{w}{r}$, the firm was not using the cost minimizing combination of inputs, the 12. labor and capital. To achieve the cost minimizing combination of inputs, the previous manager should have used fewer units of capital and more units of labor,

$$\frac{MP_L}{\text{since}} = \frac{100}{8} > \frac{MP_K}{r} = \frac{100}{16}.$$

18. Facility "L" produces 6 million kilowatt hours of electricity at the lowest average total cost, so this is the optimal facility for South-Florida. Facility "M" produces 2 million kilowatt hours of electricity at the lowest average total cost, so this is the optimal facility for the Panhandle. There are economies of scale up to about 3 million kilowatts per hour, and diseconomies of scale thereafter. Therefore, facility "M" will be operating in the range of economies of scale while facility "L" will be operating in the range of diseconomies of scale.

Chapter 6

- The environment in which computer manufacturers operate is very uncertain. The 11. rate of technical progress among chip, and other hardware, manufacturers increases the marginal cost of signing long-term contracts.
- 15. The first important point to make with shareholders is that restructuring the incentive plan is designed to maximize shareholder value. This is achieved by giving employees incentives to stay with the company longer, thereby reducing costly employee turnover and increasing the company's profitability. Also, by restructuring the incentive plan, employees will want to find ways to work more productively and make the company more profitable. The benefits to the shareholders and the employees will be a higher stock price.
- 21. Business-process outsourcing (BPO) is a contractual relationship with a thirdparty firm, whereas a firm that produces human resource services internally is vertically integrated. Contracting human resource services with a third party allows the firm to specialize in activities related to its core business, which as the problem points out may result in large cost savings. Contracts, however, are costly to write and often incomplete. These reasons provide justification for vertical integration. Contracting with an international-based firm may be more costly since the contract must be written in a manner to protect the firm in a foreign country. This extra cost should be compared to the extra benefit (cost savings) that accrues from lower off shore labor. Furthermore, there may be cultural difference in hiring practices that may make outsourcing from human resources to an international firm less attractive.

23. The money the dealership pays to train workers in the form of time and expenses is a specialized investment in human capital. The investment only has value to the dealership if workers remain with the dealership and the dealership maintains its relationship ADP. Once this is sunk, it faces a potential "hold-up" problem from workers and ADP: If either party decides to sever the relationship, the dealership will have to sink additional funds into training new employees.

PART II: Table 1:

	No. of Units held by			
Costs/Values	Sellers	Buyers	Cumulative	Cumulative
			Sellers	Buyers
1	0	3	0	32
2	0	5	0	29
3	4	4	4	24
4	3	3	7	20
5	2	6	9	17
6	3	3	12	11
7	5	2	17	8
8	3	3	20	6
9	3	3	23	3
10	4	0	27	0

- a) see graph on next page
- b) see graph on next page
- c) The equilibrium price should be between 6 and 7 as that is where the cumulative buyers and sellers would intersect.

d)

Table 2:

Period 2
5.2085714
5
0.5341688

e) For consumer surplus:

Let us predict the price is 5. The consumer surplus should be ((10-5)*0)+((9-5)*3)+((8-5)*3)+((7-5)*2)+((6-5)*3)=6+9+4+3=18.

The producer surplus is ((5-3)*4)+((5-4)*3)=8+3=11.

We cannot calculate the actual consumer and producer surplus.

f) The predictive power is quite strong as our prediction on equilibrium price and quantity using Table 1 is quite similar to the actual numbers in Table 2.

