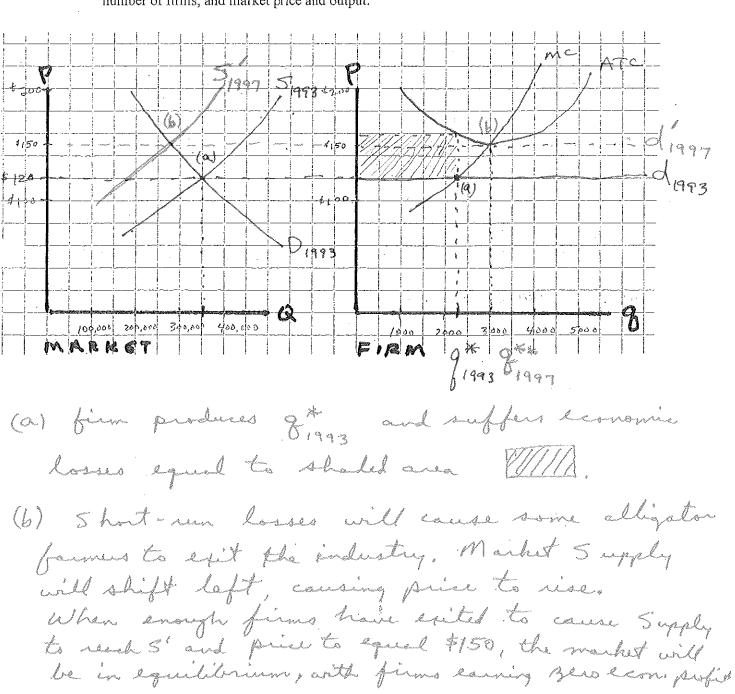
MBA	605	Exam
Septer	nbe	r 2013

100 points total. Answer each question in the space provided. General advice: show your work, including any formulas or diagrams that you use in reasoning through your answers.

- 1. (15 pts.) In 1993 the market price of a four-foot alligator was \$120. Approximately 350,000 four-foot alligators were bought and sold at that price. Minimum efficient scale for a typical alligator farmer is 3000 alligators per year. At that scale of operation, average total cost equals \$150.
 - a) Illustrate these supply and demand conditions in the market diagram below. Then illustrate the ATC, MC, and demand curves for a typical alligator farmer facing the 1993 market conditions. Show the firm's profit-maximizing output and its profits in your diagram.
 - b) Now imagine that you were asked in 1993 to predict the future of the industry. Given the 1993 market conditions, what do you think was likely to happen in the alligator market going forward? Your answer should contain references to short-run and long-run profits, the number of firms, and market price and output.

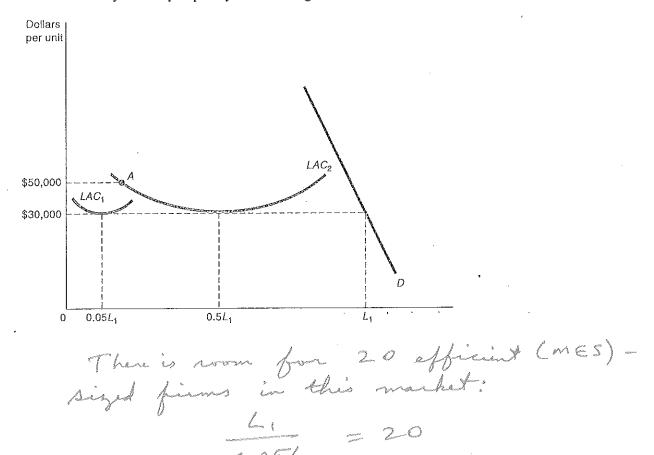


2. (10 pts.) Boston Beer Company has determined that own-price elasticity of demand for their premium Sam Adams lager is 5.0. Their marginal cost of producing and distributing a six-pack of beer is \$6.00. To maximize profits, they should set price at:

3. (10 pts.) Currently there are 170 auto makers in China. What do you think the future holds for automobile manufacturing in China? Predict the market structure in this industry ten to twenty years from now. You should incorporate into your discussion several of the WSJ and Economist articles that you have read.

Very significant economies of scale and economies of scope in automobile warifesturing (Extruction of the Predator article). Very large multi-product multe-national corporations seem to be the worst efficient organizational form. Best bet is that many of these Chinese auto insufactures will either be against of business. Chivere workst will resemble North America, Europe, and Jopan, where 4-6 firms dominate the mentst.

4. (10 pts.) Suppose all firms in an industry have long-run average cost curves like LAC₁ in the diagram below. What kind of market structure (i.e. how many firms) do you predict for this industry? Briefly explain your reasoning.



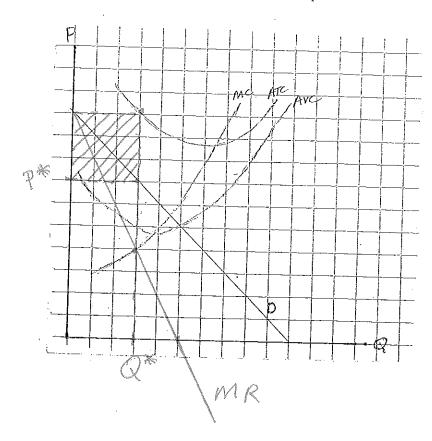
Suppose all firms in an industry have long-run average cost curves like LAC₂ in the diagram above. What kind of market structure do you predict for this industry? Explain.

firms in this weekst:

Li

0.56;

- 5. (15 pts.) A monopolist faces a market demand curve as shown below. Its AVC, ATC, and MC curves are also illustrated.
 - a) What output should it produce and what price should it charge in the short run in order to maximize profits? What will its profits be? Illustrate and briefly explain.
 - b) What output should it produce and what price should it charge in the long run if it expects these market conditions to persist?



(a) P7AVC, so produce Qto 0

where MR = MC.

5 at P = Pt.

5 ince P = ATC, firm suffers

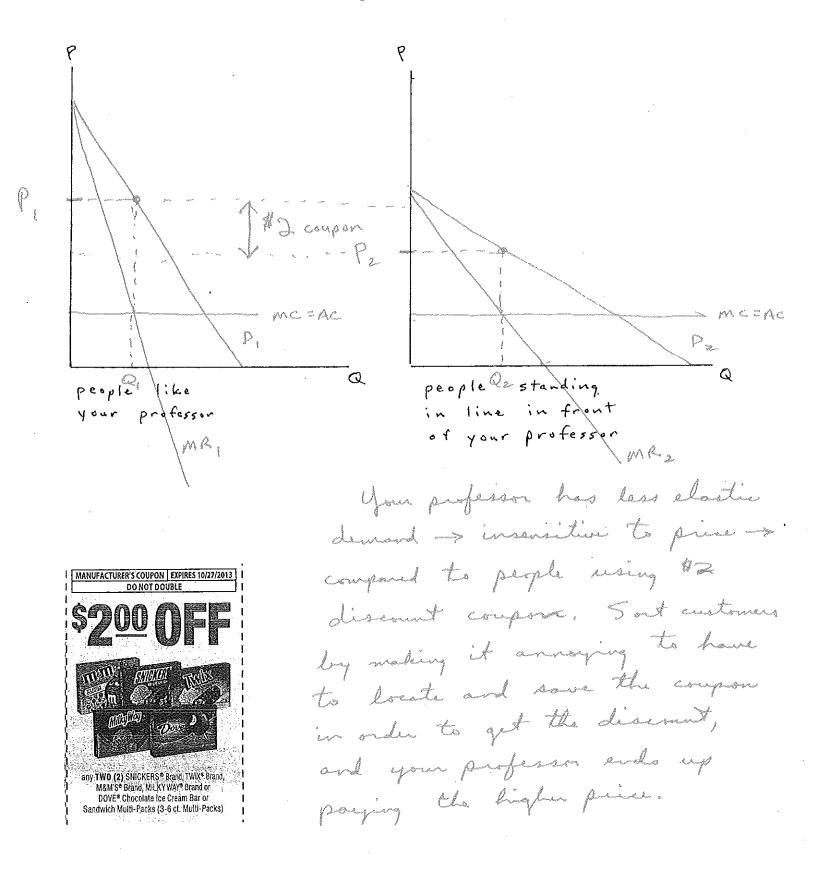
Removie hours equal to [7]

(6) Unless market demand increases, the firm count earn a normal return on its investment in this wantet.

Exit i.e. Q = 0.

6. (10 pts.) A question regarding investments in human capital. When individuals invest in general human capital such as getting a MBA, they usually pay for it themselves. When individuals invest in human capital that makes them more productive in their current job (such as learning how to use proprietary software) but does not make them more productive when working for any other firm, their employer usually pays for the cost of the training. Briefly discuss human asset specificity, holdup, and explain why the employer usually pays for the cost of acquiring firm-specific human capital.

general himan capital, such as getting on MBA, has value to a multitude of potential suployers. 5 perfer human capital, such as harring to use the proprietary software of one particular from, only increases the productivity of the individual if they usual for that one firm. an employee who pays for their own training to gain firm sperific house rishs being Held-up by their employer. - employe's went productivity and Example: usay rate = who cost of training = t firm Aprinises to pay you w, > wort if you undertake training at your own expense you undertake training at cost of t Firm octually offers you roise in furages to wit to work elsewhere at w = wo? do you guit and work elsewhere at w = wo? 7. (10 pts.) Your professor has observed that people standing in front of him at the grocery store often pay considerably less for Dove ice cream bars than he ends up paying (\$2 less, to be exact). Can you explain what is going on here, using words and diagrams? Assume that MC=AC=constant for Mars Corporation, which manufactures Dove ice cream bars. Draw demand and other curves in the diagrams below that are consistent with your explanation.



- 8. (10 pts.) An incumbent monopolist (I) is making economic profits equal to 5. A potential entrant (E) is considering entering the monopolist's market, creating a duopoly. If the potential entrant stays out, it earns economic profits equal to 0. If it enters the market the incumbent monopolist must make a decision of how to respond. If the monopolist accommodates entry by behaving non-aggressively, each firm earns duopoly profits equal to 2. If the incumbent monopolist decides to respond to entry by behaving aggressively and fighting a price war, each firm suffers price-war economic losses equal to -1.
 - a) Draw the game tree for this sequential move game. Explain what you think the outcome will be.
 - b) Suppose the incumbent monopolist announces prior to any initial move by the potential entrant that if any other firm enters its market, it will fight a price war. Now what do you think the outcome of the game will be?

TI =5 , TE = 0 12 (TTz = 2, Te = 2 (C-) The Central Evil enter the industry and the iveralent monopolist (m) will accommodate enty. Each will saw droppely profit = 2. If entry occurs, it would be irrational for the incumbert firm to fight a Aries war, since 2 7 ml. Ats threat to fight a piece wow is not crelible. The outcome of the game will be the same.

9. (10 pts.) Two rivals play a one-shot simultaneous-move game. The row player has four strategy options, and the column player has three strategy options. Their strategy options and the associated payoffs to each are represented in the payoff matrix below. What do you predict will be the outcome of this game? Explain how you arrive at your proposed solution.

		Column Player			
		Left	Middle	Right	
	Тор	9, 3	6, 0	30(6)	
Row Player	High	6, 6	(15)(12)	36,9	
	Low	12, 15	9, 0	18, 12	
	Bottom	15, 18	12, (15)	27,(21)	

a. Low is a dominated strategy for the Row Player (dominated by Bottom). Left is a dominated strategy for the Column Player (dominated by Right). - High ther becomes a dominant strategy for the Row Player. Given that the Row Player can be. expected to play High, the Player's best response is to choose Middle. The strategy poin [High, Middle] is a Nash equilibrium, neither player experiences et post regret.