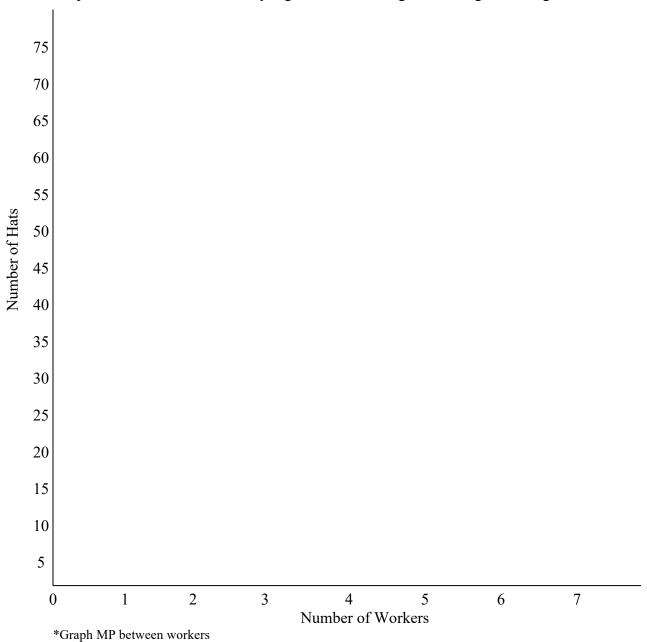
Name:	
Team:	

Short-Run Production Function for Tony's Hat Store

Quantity of Input	Total Product	Marginal Product	Average Product
(workers hired)	(Total hats produced)	(additional hats	(hats per worker)
		from each worker)	
0	0		
1	10		
2	25		
3	45		
4	60		
5	70		
6	75		
7	70		

Graph TP, MP*, AP, and identify regions of increasing, decreasing, and marginal returns



Name:	
Team:	

Definitions:

Total Product (TP)=

Marginal Product (MP)=

Average Product (AP)=

The Law of Diminishing Marginal Returns-

Stage I: Increasing marginal returns

Stage II: Decreasing marginal returns

Stage III: Negative marginal returns

Questions:

- 1. How many hats can three workers make?
- 2. How many additional hats are made as a result of hiring the 5th worker?
- 3. On average, how many hats can 2 workers make?
- 4. At what point does marginal product diminish?
- 5. Does total product decrease when marginal product falls?
- 6. When marginal product is zero, what happens to total product?
- 7. The hiring of which worker leads to 20 additional hats being produced?
- 8. How many workers does it take to make 60 hats?
- 9. What is the result of hiring the 7th worker? Why?
- 10. What causes increasing marginal returns?
- 11. How does MP affect AP? How is this demonstrated by the curve?