AAU - Microeconomics (ECO 120/2) - Spring 2010

Number of	Output	Marginal	Cost of	Cost of	Total Cost
Workers	(Quantity)	Product of	Factory	Workers	of Inputs
		Labor			_
0	0		30		
1	50		30		
2	90		30		
3	120		30		
4	140		30		
5	150		30		

1. Fill in the table below if you know that each worker's wage is 10.

Draw the production function.



2. Suppose the following table includes the partial cost numbers for a firm. Based on your knowledge of the firm's cost structure, fill in the missing values in the table for the firms cost curves.

Q	FC	VC	TC	MC	AFC	AVC	ATC
0	100						
1		100					
2				80			
3				70			116.7
4			450				
5		500					
6		800					

3. Plot the MC, AFC, AVC and ATC curves.



Term	Definition	Mathematical	
		Description	
Explicit costs	Costs that require an outlay of	_	
	money by the firm		
Implicit costs	Costs that do not require an outlay	_	
	of money by the firm		
Fixed costs	Costs that do not vary with the	FC	
	quantity of output produced		
Variable costs	Costs that do vary with the quantity	VC	
	of output produced		
Total cost	The market value of all the inputs	TC = FC + VC	
	that a firm uses in production		
Average fixed cost	Fixed costs divided by the quantity	AFC = FC/Q	
	of output		
Average variable cost	Variable costs divided by the	AVC = VC/Q	
	quantity of output		
Average total cost	Total cost divided by the quantity of	ATC = TC/Q	
	output		
Marginal cost	arginal cost The increase in total cost that arises		
	from an extra unit of production		