

Numerical of production and cost

1. Identify three phases of law of variable proportion.

Units of factor	Total product(units)	Marginal product	Phases
1	20		
2	50		
3	70		
4	80		
5	60		

2. Complete the table

Variable input	TP	AP	MP
0	0		
1			20
2			26
3	66		
4		19	
5			4

3. Complete the table

Units of input	TP	AP	MP
1	10		
2	22		
3	30		
4	30		
5	25		

4. From the given data , calculate (a)AFC (b)AVC (c)MC

Output	0	1	2	3	4	5
Total cost	30	90	110	120	140	180

5. The average fixed cost at 2nd unit of output is 25. Calculate average total cost and marginal cost from the following data.

Output	1	2	3	4
TVC	80	150	235	330

6. Complete the following data

Output	Total cost	Average variable cost	Marginal cost
0	80		
1	180		
2	270		
3	350		
4	440		

7. Calculate MC,TVC,AVC,TC

Output	1	2	3	4	5	6
AFC	60	30	20	15	12	10
MC	32	30	28	30	35	43

8. TFC of a firm is Rs 12, given below its schedule calculate TC and AVC

Output	1	2	3	4	5	6
Marginal cost	9	7	2	4	8	12