

UNIVERSITY OF ASIA PACIFIC

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING (CSE)

Course Title: Engineering Economics

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Sec: E

of Find out FC, VC, MC, AC, AR and MR

Soln: Given that,

Quantity = Q

Total revenue = TR

Total Cost = TC

Profit = P

Determine fixed cost (FC) do not vary with the quantity of output produced. So, In the beginning when firm has Produced nothing, that time total cost = 62 which is fixed cost.

So, FC = 62

We know, Variable Cost (Ve)
$$=$$
 TC-FC | $\Delta =$ Changes | betweens | betweens | cost | Average Cost (AC/ATC) $=$ $\frac{TC}{Q}$ | $\frac{TC}{TC} = \frac{TC}{TC} =$

Constructing table with TRITCI Profit, Fe, ve, mc, AC, AR

Q	TR(4)	TC(4)	Profit	Fc(\$)	VC zte-FC	MC = DTC/DQ	'AC = TCOQ	AR =TRIQ	MP2 2 TR/SQ
0	\$0	\$62	-62	62	0		-	_	-
10	\$40	20	- 50	62	28	\$2.8	\$9.0	\$4.0	\$4.0
20	\$ 80	110	- 30	62	48	\$2.0	\$ 5.5	\$40	\$4.0
30	\$120	126	- 6	62	64	1.6	4.2	4.0	4.0
40	\$160	138	22	62	76	1-2	3.45	4.0	4.0
50	\$200	150	50	<u>C2</u>	88	1.2	3.00	4.0	4.0
60	\$ 290	165	75	62	103	1.5	2.75	4.0	4.0
70	\$280	190	20	62	128	2.5	2.71	4.0	4.0
80	\$ 320	230	30	62	168	4.0	2.88	4.0	4.0
20	\$20	296	64	62	234	6.5	3.29	4.0	4.0
100	\$400	400	0	62	338	10.9	4.00	40	4.0
110	\$440	550	110	62	488	15	5,00	4.0	4.0
120	\$480	715	235	62	653	16.5	5.96	4.0	40





