Maximizing Output vs Maximizing Profit

Total cost function:	TC = A + B*Q^2	A =	300.00
Total revenue function:	TR = P*Q	B =	5.00
		P =	95.00

Q	TC	TR	MC	MR	AC	AR	Profit
0	300.00	0.00					
1	305.00	95.00	5.00	95.00	305.00	95.00	-210.00
2	320.00	190.00	15.00	95.00	160.00	95.00	-130.00
3	345.00	285.00	25.00	95.00	115.00	95.00	-60.00
4	380.00	380.00	35.00	95.00	95.00	95.00	0.00
5	425.00	475.00	45.00	95.00	85.00	95.00	50.00
6	480.00	570.00	55.00	95.00	80.00	95.00	90.00
7	545.00	665.00	65.00	95.00	77.86	95.00	120.00
8	620.00	760.00	75.00	95.00	77.50	95.00	140.00
9	705.00	855.00	85.00	95.00	78.33	95.00	150.00
10	800.00	950.00	95.00	95.00	80.00	95.00	150.00
11	905.00	1,045.00	105.00	95.00	82.27	95.00	140.00
12	1,020.00	1,140.00	115.00	95.00	85.00	95.00	120.00
13	1,145.00	1,235.00	125.00	95.00	88.08	95.00	90.00
14	1,280.00	1,330.00	135.00	95.00	91.43	95.00	50.00
15	1,425.00	1,425.00	145.00	95.00	95.00	95.00	0.00

Q=10 maximizes profits

Q=15 maximizes output