

Profit Maximization

Econ 101

$$P = 40 - 2P$$

Price	Pizzas	Total Revenue	Total Cost	Total Profit		
40	0					
38	1					
36	2					
34	3					
32	4					
30	5					
28	6					
26	7					
24	8					
22	9					
20	10					
18	11					
16	12					
14	13					
12	14					
10	15					
8	16					
6	17					
4	18					
2	19					
0	20					

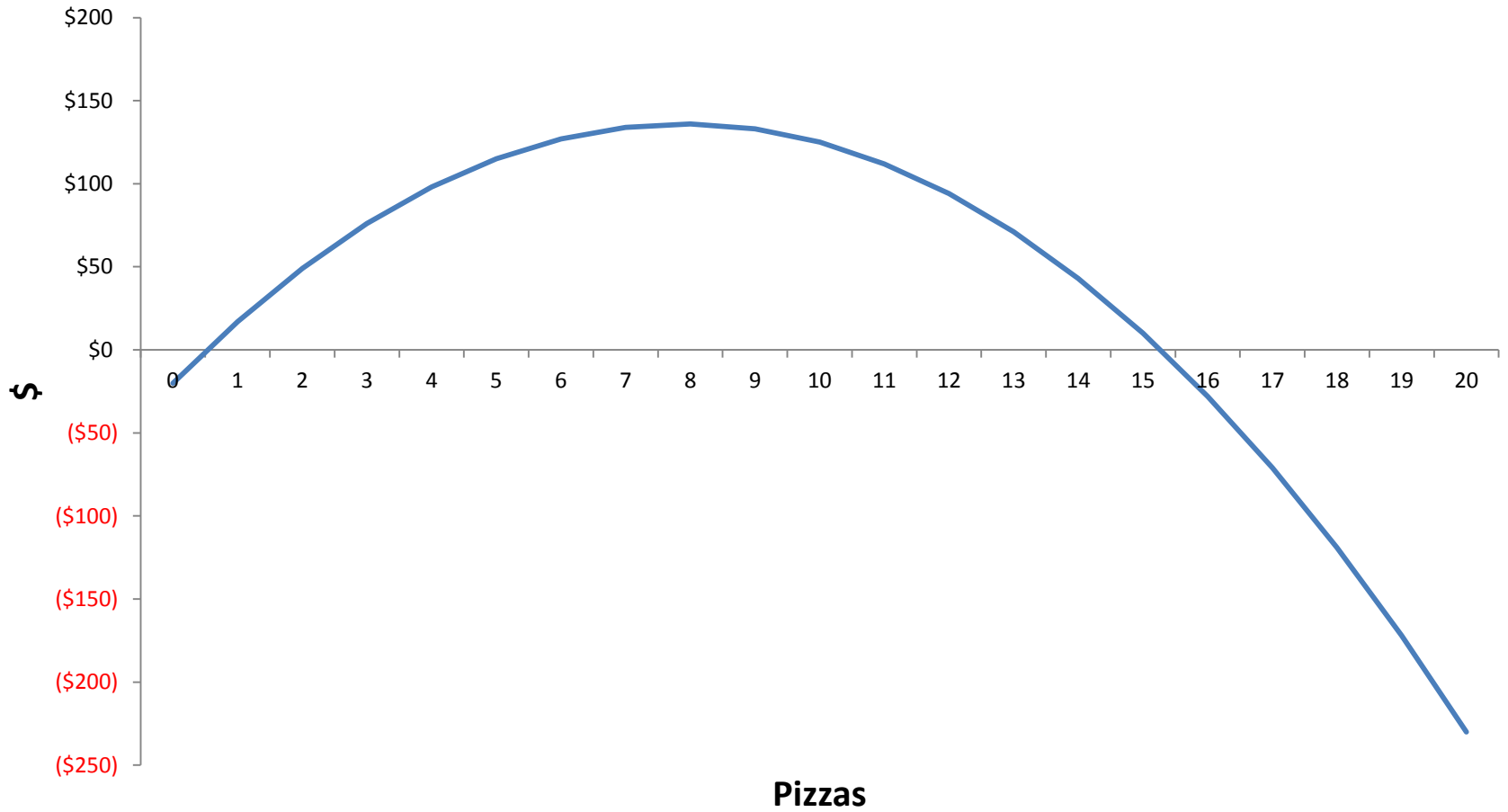
$$P = 40 - 2P$$

Price	Pizzas	Total Revenue	Total Cost	Total Profit		
40	0	0	0			
38	1	38				
36	2	72				
34	3	102				
32	4	128				
30	5	150				
28	6	168				
26	7	182				
24	8	192				
22	9	198				
20	10	200				
18	11	198				
16	12	192				
14	13	182				
12	14	168				
10	15	150				
8	16	128				
6	17	102				
4	18	72				
2	19	38				
0	20	0				

$$P = 40 - 2P$$

Price	Pizzas	Total Revenue	Total Cost	Total Profit		
40	0	0	\$20	(\$20)		
38	1	38	\$21	\$17		
36	2	72	\$23	\$49		
34	3	102	\$26	\$76		
32	4	128	\$30	\$98		
30	5	150	\$35	\$115		
28	6	168	\$41	\$127		
26	7	182	\$48	\$134		
24	8	192	\$56	\$136		
22	9	198	\$65	\$133		
20	10	200	\$75	\$125		
18	11	198	\$86	\$112		
16	12	192	\$98	\$94		
14	13	182	\$111	\$71		
12	14	168	\$125	\$43		
10	15	150	\$140	\$10		
8	16	128	\$156	(\$28)		
6	17	102	\$173	(\$71)		
4	18	72	\$191	(\$119)		
2	19	38	\$210	(\$172)		
0	20	0	\$230	(\$230)		

Total Profits



$$P = 40 - 2P$$

Price	Pizzas	Total Revenue	Total Cost	Total Profit	Marginal Cost	Marginal Benefit
40	0	0				0
38	1	38			1	38
36	2	72			2	34
34	3	102			3	30
32	4	128			4	26
30	5	150			5	22
28	6	168			6	18
26	7	182			7	14
24	8	192			8	10
22	9	198			9	6
20	10	200			10	2
18	11	198			11	-2
16	12	192			12	-6
14	13	182			13	-10
12	14	168			14	-14
10	15	150			15	-18
8	16	128			16	-22
6	17	102			17	-26
4	18	72			18	-30
2	19	38			19	-34
0	20	0			20	-38

$$P = 40 - 2P$$

Price	Pizzas	Total Revenue	Total Cost	Total Profit	Marginal Cost	Marginal Benefit
40	0	0				0
38	1	38			1	38
36	2	72			2	34
34	3	102			3	30
32	4	128			4	26
30	5	150			5	22
28	6	168			6	18
26	7	182			7	14
24	8	192			8	10
22	9	198			9	6
20	10	200			10	2
18	11	198			11	-2
16	12	192			12	-6
14	13	182			13	-10
12	14	168			14	-14
10	15	150			15	-18
8	16	128			16	-22
6	17	102			17	-26
4	18	72			18	-30
2	19	38			19	-34
0	20	0			20	-38

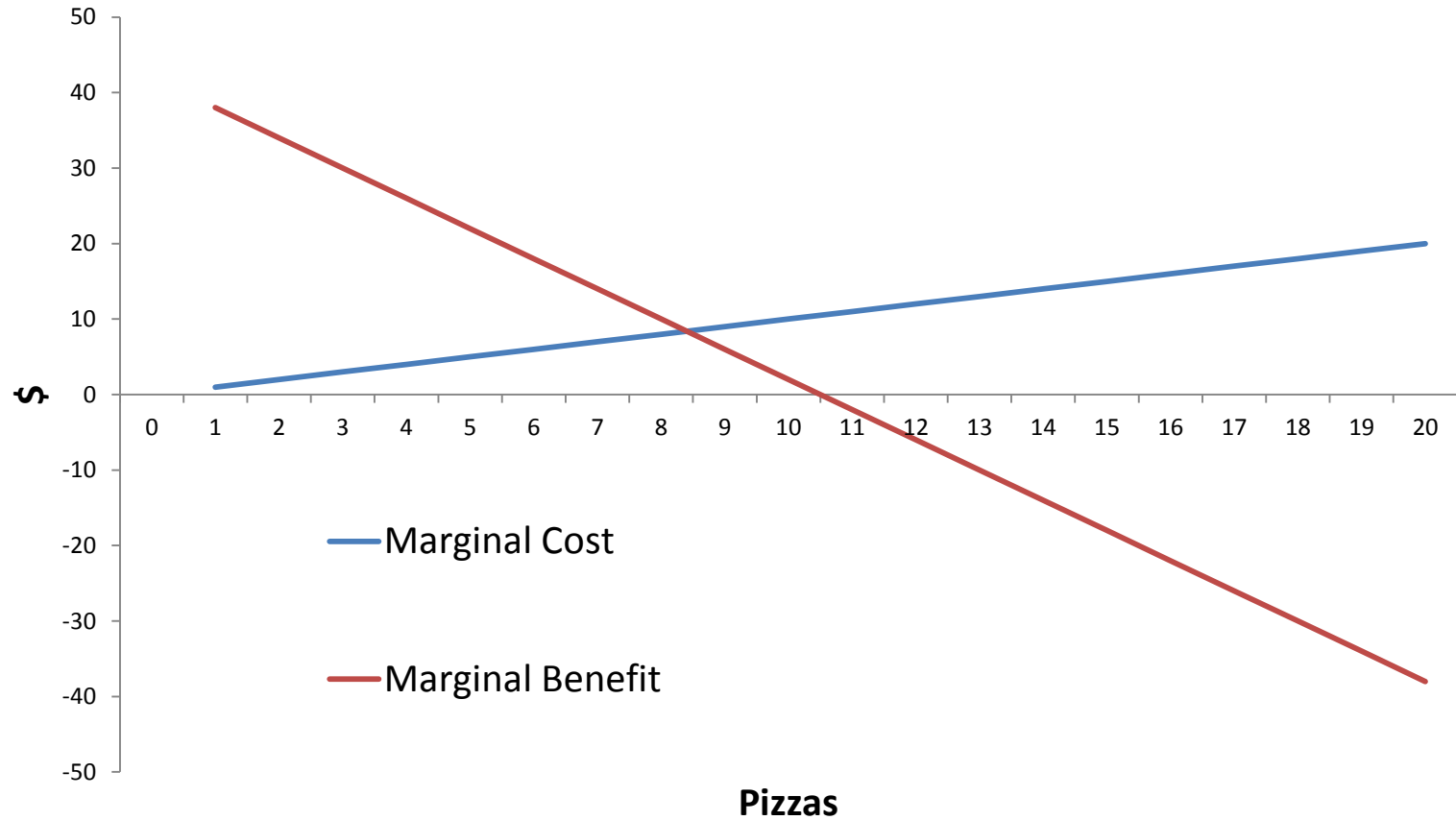
$$P = 40 - 2P$$

Price	Pizzas	Total Revenue	Total Cost	Total Profit	Marginal Cost	Marginal Benefit
40	0	0	\$20	(\$20)		0
38	1	38	\$21	\$17	1	38
36	2	72	\$23	\$49	2	34
34	3	102	\$26	\$76	3	30
32	4	128	\$30	\$98	4	26
30	5	150	\$35	\$115	5	22
28	6	168	\$41	\$127	6	18
26	7	182	\$48	\$134	7	14
24	8	192	\$56	\$136	8	10
22	9	198	\$65	\$133	9	6
20	10	200	\$75	\$125	10	2
18	11	198	\$86	\$112	11	-2
16	12	192	\$98	\$94	12	-6
14	13	182	\$111	\$71	13	-10
12	14	168	\$125	\$43	14	-14
10	15	150	\$140	\$10	15	-18
8	16	128	\$156	(\$28)	16	-22
6	17	102	\$173	(\$71)	17	-26
4	18	72	\$191	(\$119)	18	-30
2	19	38	\$210	(\$172)	19	-34
0	20	0	\$230	(\$230)	20	-38

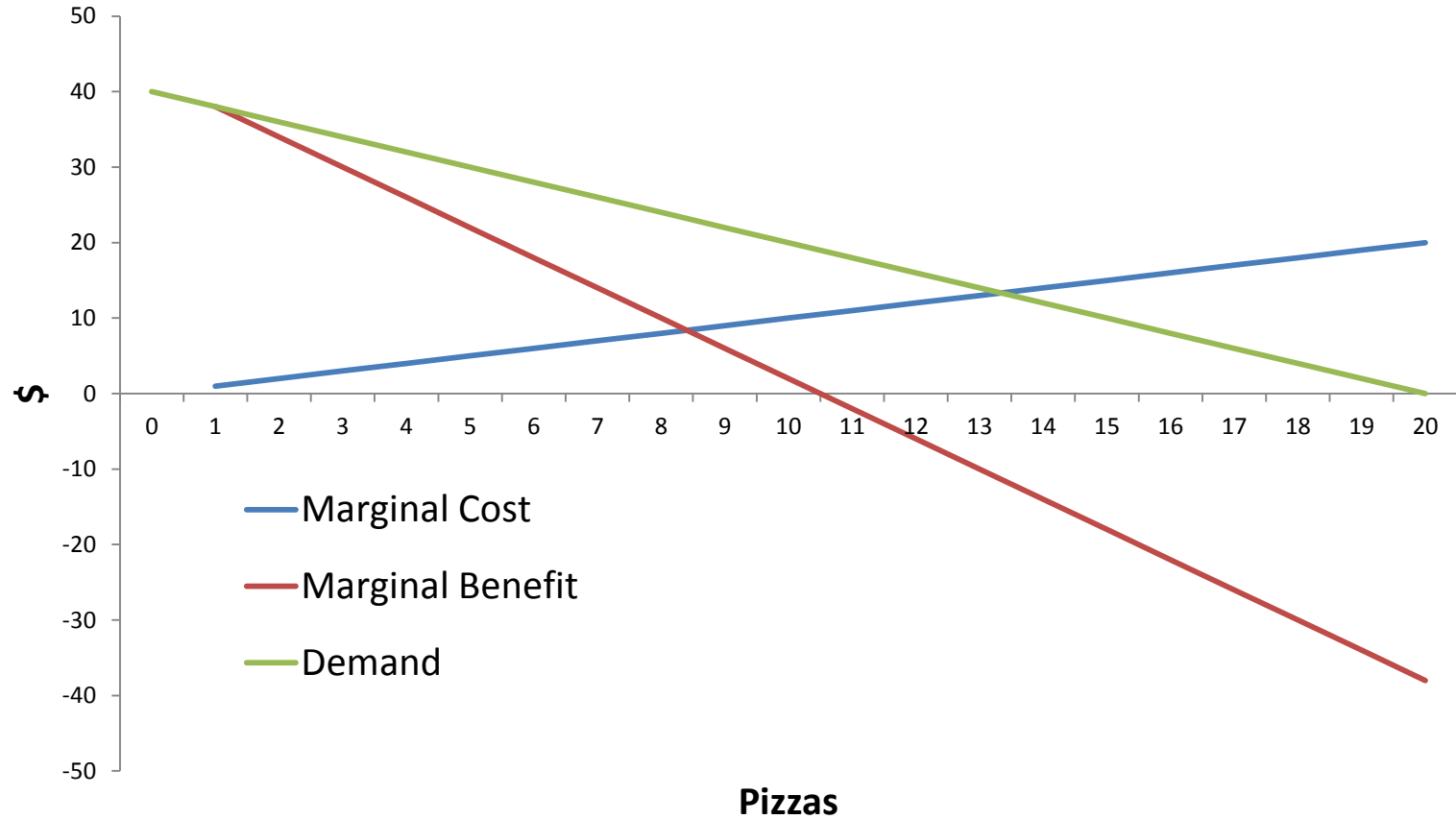
$$P = 40 - 2P$$

Price	Pizzas	Total Revenue	Total Cost	Total Profit	Marginal Cost	Marginal Benefit
40	0	0				
38	1	38			1	38
36	2	72			2	34
34	3	102			3	30
32	4	128			4	26
30	5	150			5	22
28	6	168			6	18
26	7	182			7	14
24	8	192			8	10
22	9	198			9	6
20	10	200			10	2
18	11	198			11	-2
16	12	192			12	-6
14	13	182			13	-10
12	14	168			14	-14
10	15	150			15	-18
8	16	128			16	-22
6	17	102			17	-26
4	18	72			18	-30
2	19	38			19	-34
0	20	0			20	-38

Marginal Cost = Marginal Revenue



Finding Profit Maximizing Price



Finding Profit Maximizing Price

