Answer on Question #40775 – Economics - Microeconomics

p = 120-Q; MC = 10, r = 10 per unit.Total revenue is $TR = P*Q = 120Q - Q^2$. Marginal revenue is MR = TR' = 120 - 2Q. Monopolist quantity produced is maximized, if MR = MC. 120 - 2Q = 10.Q = 55 units. We find optimal price from the demand curve: P = 120 - 55 = \$65.TR = 65*55 = \$3575.If the tax is imposed, new demand curve will be: P - 10 = 120 - Q.P = 130 - Q.MR = 130 - 2Q.We find new equilibrium, where MR = MC. 130 - 2Q = 10.Q = 60 units. P = 130 - 60 =\$70. TR = 70*60 = \$4200.So, we can see, that monopolist would be better off, because its total revenue increased. Nevertheless, as the price increased, consumers will pay more, which is not good result of

imposing tax either for consumers, or for society.

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