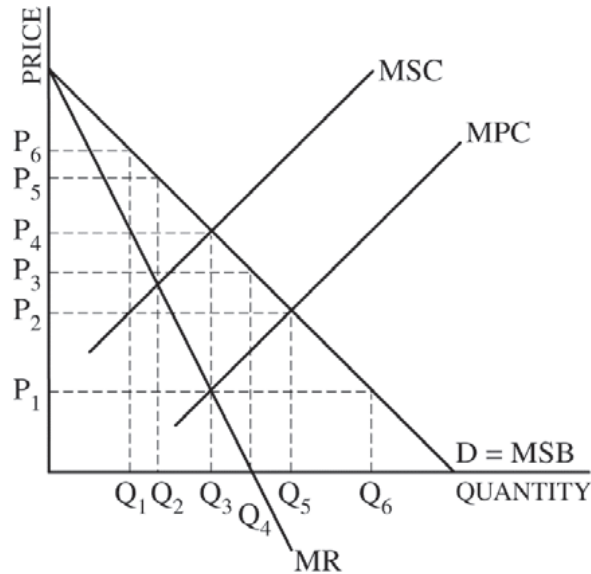


3. The graph below shows the marginal social cost (MSC), marginal private cost (MPC), marginal social benefit (MSB), demand (D), and marginal revenue (MR) curves for a monopoly.



- (a) Identify the monopolist's
- (i) profit-maximizing quantity
 - (ii) profit-maximizing price
- (b) What information in the graph indicates that there is a negative externality?
- (c) Identify the socially optimal quantity.
- (d) In the case in which the government imposes a per-unit tax equal to the marginal external cost, identify each of the following.
- (i) The dollar value of the tax, using the price labels from the graph
 - (ii) The profit-maximizing quantity associated with the tax
- (e) Given the monopoly facing the negative externality, would the deadweight loss increase, decrease, or stay the same as a result of imposing the per-unit tax? Explain.

STOP

END OF EXAM