Example   Scenario

Let's say:

1) the Market Demand functions is:

$$P = 200 - Q$$

where:

P = Price   and

Q = total quantity produced by both firms.

2) We have two firms.

Firm A

Firm B

and each firm's cost is zero since they don't incur any production cost.

Now, we want Cournot equilibrium quantities, the market price, and each firm's profit.