

C. Computation of price and quantity equilibrium.

The equilibrium market price is computed when there is an intersection in the products demand and supply curve.

Quantity demanded[QD]=Quantity supplied[QS]= Equilibrium price [EP]

$$-5200 - 42P + 43850 = -7909.89 + 79.1P = EP$$

Equilibrium price determination

$$-5200 - 42P + 43850 = -7909.89 + 79.1P$$

$$7909.89 - 5200 + 43850 = 42P + 79.1P$$

$$46559.89 = 121.1P$$

$$384.478 = P = 46559.89 / 121.1P$$

Equilibrium price=384.475

Equilibrium Quantity [EQ]determination

$$QS = -7909.89 + 79.1P$$

$$EQ = -7909.89 + 79.1 * 384.475 = 22502.91$$

EQ=22502 units

D. Factors impacting products demand and supply

Various factors like changes in income levels of consumers, substitute's price, and population, prices of complementary products, tastes/liking, and future prices do have an impact on the **product's demand and supply**. Market changes in the short-term typically includes fluctuations in cost of products, changes in supply of the substitute goods, seasonal product favored by the consumers, inflation price effects etc. In course of shorter-term period changes are further inclined generating quick decrease or increase in demand and supply of seasonal