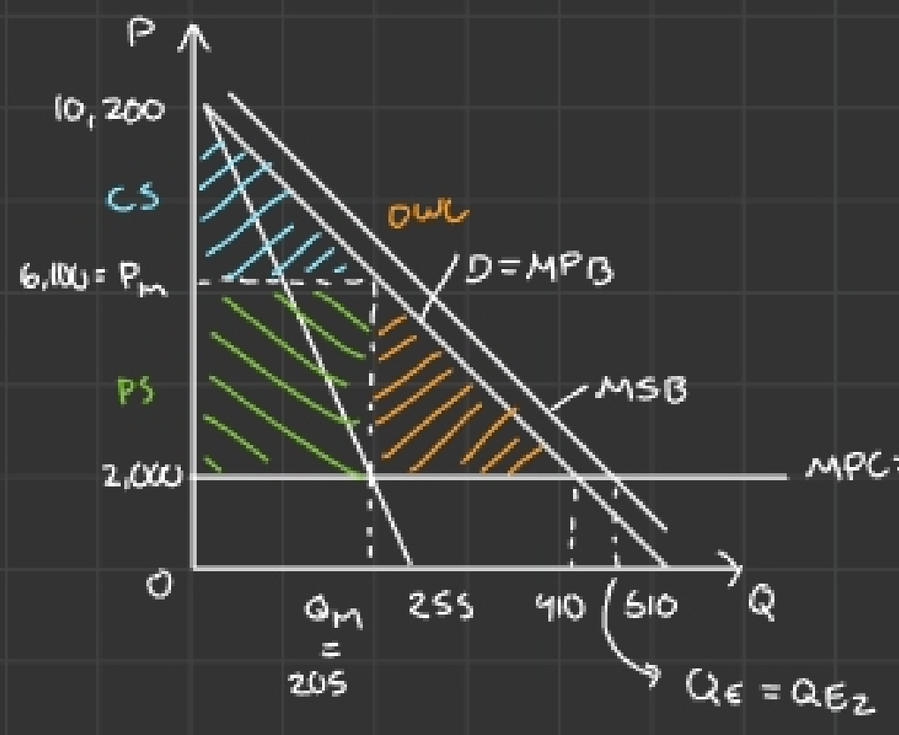

$P = 10200 - 20Q \rightarrow P_M = 10,200 - 20(205)$

$20Q = 10200 - P$ $= 6,100$

$Q = 510 - \frac{P}{20}$

$P = 10200 - 40Q$

$40Q = 10200 - P$

$Q = 255 - \frac{P}{40} \rightarrow Q_m = 255 - \frac{2,000}{40}$

$= 205$

c. $CS = \frac{(10,200 - 6,100)(205)}{2} = \boxed{420,250}$

d. profit = $\boxed{840,500}$

$PS = (6,100 - 2,000)(205) = \boxed{840,500}$

$DWL = \frac{(6,100 - 2,000)(410 - 255)}{2} = \boxed{420,250}$

e. Q_m is not efficient $\rightarrow MSB \neq MSC$

F. $2,000 = 10,700 - 20\,Q_E$

$20\,Q_E = 8,700$

$\boxed{Q_E = 435}$

g. outcome is efficient $\rightarrow MSD = MSC$

can't charge higher price because of the price ceiling