Optimization the total revenue is given as: $R(x) = -2x^2 + 68x - 128$

At what level of sales is the average revenue per unit equal to the majoral revenue

Solution: Are. R. = Marginal R. $\frac{R(x)}{X} = R'(x)$

 $\frac{-2x^{2}+68x-128}{x} = -4x+68$

-2x+68-128 = -4x+68 $-128 = -2x \Rightarrow x^{2}=64 \Rightarrow x=8$

Hint: No need to wrify max. P If mR=MC wed