

第161页 2020.6.

9. (A)  $q = 10^3 k^2 \Rightarrow k^2 = \frac{q^2}{10^6}$

$$STC = 10V^2 + 10k = \frac{q^2}{10^6} + 10k$$

$$ATC = \frac{q}{10^3} + \frac{10k}{q}$$

$$MC = \frac{q}{5k}$$

13)  $\frac{STC}{k} = \frac{q^2}{10k^2} + 10 = 0 \quad k^2 = \frac{q^2}{10}$

$$TC = STC(k = k^2) \Rightarrow \frac{q^2}{10(\frac{q}{10})^2} + 10 \frac{q}{10} = 0$$

7.

(A)  $ATC = \frac{TC}{q} = 5$

(B) ~~ATC~~  
 $AVC = q^2 - 12q + 1 \rightarrow 2q - 12 = 0 \Rightarrow q = 6$

(C)  $AVC$  递减,  $ATC$  递减  $\Rightarrow q \geq 6$

(D)  $MC = 3q^2 - 24q + 1 \Rightarrow 6q - 24 = 0 \Rightarrow q = 4$

当  $MC$  递减,  $ATC$  递减  $\Rightarrow q \geq 4$