[題] 11.

(A) $q = 10 L^{0.5} K^{0.5}$ → $L = \dfrac{q^2}{100K}$

$STC = 10 \times \dfrac{q^2}{100K} + 10K = \dfrac{q^2}{10K} + 10K$ #

$AC = (q/10K) + (10K/q)$

$MC = q/5K$

(B) $\dfrac{dSTC}{dK} = \dfrac{-q^2}{10K^2} + 10 = 0$ → $K\% = \dfrac{q}{10}$

$STC(K = K\%) = \dfrac{q^2}{10 \times (q/10)} + 10\dfrac{q}{10} = q + q = 2q$ #

[題] 12.

$q = 20$, $AC \sim AVC = AFC = 10$, $FC = AFC \times q = 10 \times 20 = 200$

$q = 40$, $AFC = FC/q = 200/40 = \underline{5}$ #

[題] 13.

$VC(10) = \displaystyle\int_0^{10} 10q\,dq = 5q^2\Big|_0^{10} = 500$

$TC = VC + FC = 500 + 100 = \underline{600}$ #