

Week 2 戴佳全 A07260083

$$1. \bar{AP}_L = \frac{q}{L} \quad AP_K = \frac{q}{K} \quad MP_L = \frac{\Delta q}{\Delta L}$$

2. ~~MP_L = 21~~

$$(A) MP_L = 21 \Rightarrow \frac{\Delta MP_L}{\Delta L} \Rightarrow L = 3$$

$$(B) MP_L = 0 \Rightarrow L = 7$$

$$(C) AP_L = \cancel{21} + 9 \frac{q}{L} \Rightarrow \frac{\Delta AP_L}{\Delta L} \Rightarrow L = 4.5$$

$$4. 500 = 10 \times 5 + 5 \times MP_K \Rightarrow MP_K = 90$$