

$$APL = \frac{q}{L} \quad MPL = \frac{\Delta q}{\Delta L}$$

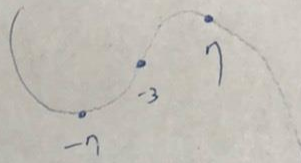
$$1. \quad ATK = \frac{q}{K}$$

$$2. \quad q \Rightarrow 1L + qL^2 = L^3$$

$$\Rightarrow 1 + 18L - 3L^2 > (-L+1)(L+1) \Rightarrow L = -1 + 7$$

$$7 + 6L - L^2 - 1$$

$$\begin{aligned} (A) &= 7 \\ (B) &= 7 \\ (C) &= 3 \end{aligned}$$



$$3. \quad L = 10$$

$$K = 5$$

$$MPL = 5$$

$$q = 500$$

$$MPK = 2.5$$

$$\frac{MPL}{L} = \frac{MPK}{K}$$

$$\Rightarrow MPK = 2.5$$

4.

$$(A) \quad 5A + 10B = 4$$

$$(B) \quad L = 2$$

$$K = 1$$