

$$1. APK = \frac{q}{K}$$

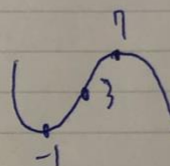
K:	L:	Q:	APL:	APK:	MPL:
20	0	0	0	0	0
20	5	20	4	1	4
20	10	43	4.3	2.15	4.6
20	15	57	3.8	2.85	2.8
20	20	67	3.35	3.35	2
20	25	75	3	3.75	1.6

$$2. q = 21L + 9L^2 - L^3$$

$$21 + 18L - 3L^2 \Rightarrow (-L + 7)(L + 1)$$

$$\Rightarrow L = -1 \text{ or } 7$$

$$18 - 6L \Rightarrow L = 3$$



$$(A): 7$$

$$(B): 7$$

$$(C): 3$$

3.

$$L = 10$$

$$K = 5$$

$$q = 500$$

$$MPL = 5$$

$$MPK = 215$$

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

$$\Rightarrow MPK = 215$$

4.

$$(A) 5A + 10B = 9$$

$$(B) L = 2$$

$$K = 1$$