

Q ✓

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Q ✓

Q ✓

$$V_E \frac{qE}{qV} = |q| = \pm 1 / B = \pm \sqrt{qEx} = \pm 1$$

$$\Rightarrow A+B = \begin{pmatrix} \mu_{11} + \mu_{21} & \mu_{12} + \mu_{22} \\ \mu_{31} + \mu_{41} & \mu_{32} + \mu_{42} \end{pmatrix}$$

توضیح: واسطہ اولیٰ و ثانیہ ہوا اور میانگین دوسرا درجہ واسطہ ہوا از آن پس سرد آفریدہ است۔

④ ✓

$a_n: a_1, a_2, a_3 \Rightarrow \{a+rd, a+2d, a+3d\}$
 $b_n: b_1, b_2, b_3 \Rightarrow \{b, bq, bq^2\}$

$a \otimes b: (a+rd) \cdot (a+2d) = (a+3d)^2$
 $a^2 + bad + 18d^2 = a^2 + 18ad + 9d^2$
 $\Rightarrow 18ad = 18ad \Rightarrow d \neq 0 \Rightarrow r+2d=0 \Rightarrow d = -\frac{1}{2}a$

$d = 0 \Rightarrow a = 0$
 $d = 0 \Rightarrow a = 0$

$a_n: a_1, a_2, a_3 \Rightarrow \{a+rd, a+2d, a+3d\}$
 $b_n: b_1, b_2, b_3 \Rightarrow \{b, bq, bq^2\}$

$a = \frac{1}{\epsilon}$
 $r = 1, d = 1 \Rightarrow q = 2$

$a \otimes b: (a+rd) \cdot (a+2d) = (a+3d)^2$
 $a^2 + 18ad + 9d^2 = a^2 + 18ad + 9d^2$
 $r+2d = r+2d \Rightarrow d \neq 0 \Rightarrow a = d$

$a_n: r+q, r+q^2, a$
 $r+q, r+q^2, a$

$a \otimes b: r+q = r+q^2 \Rightarrow q = 1$
 $q = 1 \Rightarrow r+q = r+q^2$

$a_n: \frac{1}{\epsilon}, \dots, a_n = -\frac{1}{\epsilon}n + \frac{9}{\epsilon}$
 $b_n: \frac{1}{\epsilon} + x, \frac{1}{\epsilon} + x, x-1$

$a \otimes b: \left(\frac{1}{\epsilon} + x\right)(x-1) = \left(x + \frac{1}{\epsilon}\right)^2$
 $x + \frac{1}{\epsilon}x - \frac{1}{\epsilon} = x^2 + \frac{2}{\epsilon}x + \frac{1}{\epsilon^2}$

$q = \frac{1}{\epsilon}$
 $q = \frac{1}{\epsilon}$

$a_n: a_1, a_2, a_3 \Rightarrow \{a+rd, a+2d, a+3d\}$
 $b_n: b_1, b_2, b_3 \Rightarrow \{b, bq, bq^2\}$

$a+q, b+q \Rightarrow V$
 $a(1+q+q^2) = V$
 $b+b+V+b+q^2b = V$
 $Vb = V$

$b = \frac{1}{V}$
 $d = \frac{1}{V}$