

Date: / /

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$$1+0, 4+1, 9+4, 16+9, \dots$$

①

$$n^2 + \frac{(n-1)n}{2} \rightarrow 100 + \frac{9 \times 10}{2} = 145$$

$$\overbrace{1, 4, 9, \dots}^{+1} \rightarrow \frac{n \times (n-1)}{2} = 55 \rightarrow n(n-1) = 110$$

②

$$\rightarrow n = 11$$

$$\overbrace{9, 16, \dots}^{+4} \rightarrow kn+1 \rightarrow 4n+1 \rightarrow 4n+1 = 11 \rightarrow 4n = 10 \rightarrow n = 2.5$$

③

$$\overbrace{0, 4, 16, \dots}^{+4} \rightarrow kn-k \rightarrow n-k = 10 \rightarrow n = k+10$$

④

$$\rightarrow 1a + 4a = 10 \rightarrow 5a = 10 \rightarrow a = 2$$

⑤

$$\text{کمیترین} = -1 \quad \text{کمیترین} = \frac{(1-1)^n}{2} = \frac{1}{2} \rightarrow \frac{1}{2} + 1 = \frac{3}{2}$$

$$-2V - 2I = -4A \rightarrow 2n + 2r = -4A \rightarrow n = -1A$$

⑥

$$10a + b - (4a + b) = 12 \rightarrow 6a = 12 \rightarrow a = 2$$

⑦

$$4a + b - a - b = ? \rightarrow 3a = 3 \times 5 = 15$$

$$2a + b = 5 \quad 4a + b = 12 \rightarrow 1 = 7 \rightarrow a = 2$$

⑧

$$2 \times 5 + b = 5 \rightarrow b = -5$$

$$\frac{1}{2} + \frac{1}{2} = 1 \rightarrow \frac{1}{2} + \frac{1}{2} = 1$$

$$-2V - 2I = -E \rightarrow 2n + 2I = -E \rightarrow n = 1K$$

$$10a + b - (a + b) = 12 \rightarrow 9a = 12 \rightarrow a = \frac{4}{3}$$

$$4a + b - a - b = 7 \rightarrow 3a = 7 \rightarrow a = \frac{7}{3}$$

$$2a + b = 5 \quad 4a + b = 12 \rightarrow 1 = 2a \rightarrow a = \frac{1}{2}$$

$$2a + b = 5 \rightarrow b = -1 \rightarrow 2n - 1 = a_n \rightarrow a_1 = 1 \quad a_n = 1$$

$$1a - 2 = b_n$$

$$\frac{4a - 2}{2a + 2} = a_n \rightarrow \frac{4a - 2}{2a + 2} < \frac{4}{2} \rightarrow 4a + 2 > 1a - 2$$

$$\hookrightarrow 4a + 2 > a - 2$$

$$\hookrightarrow 4a + 2 > a - 2 \rightarrow 4a + 2 > a - 2$$

$\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$

2-2

$$\omega_k - \frac{1}{2} \Delta + \Delta \times v_1 \Delta = \omega^{\text{re}}$$

$$\frac{-4 \pm \sqrt{16 - 4 \cdot 1 \cdot 1}}{2 \cdot 1}$$

$$a = 1 \Rightarrow 1 + B - 4 = -4 \Rightarrow B = -1$$

$$\frac{1}{n} \rightarrow n - 1$$

$$1: r_1 - r_1 = a = d \rightarrow a + r_1 = n - n - 1$$

$$b = 24, b = 21 \quad YV = n - 4n \rightarrow n = 9$$

$$2 \times 9 + 71 = 79$$

22 + 21

$$\begin{array}{r} 11 \\ 12 \\ 12 \\ 12 \\ \hline 36 \end{array}$$