

(1

$$\Delta = 119 - 45 = 74$$

$$x = \frac{10 \pm \sqrt{74}}{1} \rightarrow \begin{matrix} \nearrow & \nwarrow \\ x & y \end{matrix} \quad \boxed{\frac{1}{x} = \frac{y}{7}}$$

2

$$n^p = 2 \rightarrow n = \pm 1$$

$\gamma \rightarrow +\gamma \rightarrow a_1 = 1 \quad a_2 = 2 \quad a_3 = 3 \quad \checkmark \rightarrow q = \frac{1}{3}$
 $\rightarrow -\gamma \rightarrow 1 \quad \leftarrow \gamma \quad X$
 $3V = 1.0 \left(\frac{1 - \frac{1}{3}}{1 - 0} \right) \rightarrow 1 \times \left(\frac{1 - \frac{1}{3}}{1 - 1} \right) \quad (V)$
 $1 \times \frac{1V}{\frac{1}{3}} \rightarrow \frac{1V \times 3}{1} = 3V$

(f)



$$A + B = \psi(\omega) + \Lambda = \begin{cases} \psi(\omega) \\ \psi(\omega) \end{cases}$$



9

(a)

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۵-۰ d قسم در
وصف و نقلی صحنه
تبر جواب قابل
قبول

$(v$

②

$$\frac{r a_1 q + a_1 q^r}{y}, \quad r a_1 q^r \rightarrow r a_1 q + a_1 q^r = e a_1 q^r$$

$$g/g(p \rightarrow q), \text{ and } g/q$$

$$\begin{aligned} w + q^r &= \epsilon q \\ q^r - \epsilon q + w &= 0 \end{aligned} \rightarrow \begin{matrix} 1 \\ w \end{matrix} \rightarrow$$

علیہ جو فیض ثابت
میشہ

$$11V\omega \text{ (N)}$$

$$\begin{array}{lcl}
 a + 3d + n & a + 4d + n & a + 12d + n \\
 (1) & (2) & (3) \\
 \downarrow & \downarrow & \downarrow \\
 1 + 3(-\frac{1}{2}) + n & \frac{1}{2} + n & -1 + n \\
 \downarrow & \downarrow & \\
 \frac{5}{2} + n & \frac{1}{2} - \frac{11}{2} = -5 & \\
 \downarrow & & \\
 \frac{5}{2} - \frac{11}{2} = -3 & &
 \end{array}$$

$$d = -\frac{1}{2} \quad a = 2$$

$$b^2 = ac \rightarrow (\frac{1}{2} + n)^2 = (n-1)(n + \frac{5}{2})$$

$$n^2 + \frac{1}{4} + \frac{1}{2}n = n^2 + \frac{1}{2}n - \frac{5}{2}$$

$$-\frac{11}{4} + \frac{1}{2}n \rightarrow n = -\frac{11}{2}$$

$$q = \frac{a_m}{a_n} = q^{r-1} = \frac{a}{q} \rightarrow q = \frac{a}{q}$$

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$$\begin{array}{lcl}
 (1) & (2) & (10) \\
 a_1 + a_1 q^r + a_1 q^4 = \sqrt{p} & \xrightarrow{q=2} & a_1 + 16a_1 + 16a_1 = \sqrt{p} \rightarrow a_1 = 1
 \end{array}$$

$$d = \frac{ar - a_1}{1} = a_1 q^r - a_1 = a_1 (q^r - 1) \rightarrow d = a_1 (q^r - 1) \rightarrow 1(16 - 1) = \boxed{15}$$

$$qd = a_1 q^4 - a_1 = a_1 (q^4 - 1) \rightarrow d = \frac{a_1 (q^4 - 1)}{q} \rightarrow \frac{a_1 (q^4 - 1)}{q} = a_1 (q^3 - 1)$$

$$\frac{(q^4 + 1)(q^3 - 1)}{q} = q^3 - 1$$

$$\begin{aligned}
 q^4 + 1 &= q \\
 q^4 &= 1 \rightarrow q = 2
 \end{aligned}$$

$$\begin{aligned}
 q &= 1 & \sqrt{p} &= \sqrt{p} \\
 a &= \frac{\sqrt{p}}{q}
 \end{aligned}$$

$$d = aq^r - a \rightarrow \frac{\sqrt{p}}{q} - \frac{\sqrt{p}}{q} = 0$$