

11 ~~مطلوب~~ ~~في~~ ~~الجزء~~ ~~من~~ ~~السؤال~~

14, 15

$$a_n = F_{n+1}$$

$$a_0, a_1, a_2, \dots$$

$$a_{10} = \mathcal{E}(1_0) + 1 = \mathcal{E} \int$$

⑤ (1)

$$4, 9, 16, 25, 36, \dots$$

$$a_n = \mathcal{E}n + r$$

$$a_1, a_2, a_3, a_4, a_5, a_6, a_7, a_8, a_9, a_{10}, a_{11}$$

(1) (2)

$$S_n = \frac{n}{2}(a_1 + a_n) = \frac{1}{2} \int (F_n + r) = \frac{1}{2} \mathcal{E} \int$$

$$a_1 = F(1) + r = r$$

$$a_{11} = \mathcal{E}(11) + r = \mathcal{E}4$$

①

$$d = +1 - \sqrt{r}$$

$$a_{10} = a_1 + r \mathcal{E}$$

$$1 + \sqrt{r} + r + r^2 + \dots + r^{n-1}$$

$$a_n = a_1 + (n-1)r$$

(3)

$$1 + \sqrt{r} + r + r^2 + \dots + r^{n-1} = \frac{1-r^n}{1-r}$$

(5)

$$a_{10} = a_1 + r \mathcal{E}$$

$$1 + \sqrt{r} + r + r^2 + \dots + r^{n-1} = \frac{1-r^n}{1-r}$$

$$10 - r \sqrt{r} = \frac{1-r^{10}}{1-r}$$

$$r - r \sqrt{r}$$

$$a_n = a^p x_{n-1} \mu_x \nu_n$$

$$x, y = \mu$$

$$b_n = 1, \mu, \mu$$

$$a^p x, \mu_x \nu a^p x = \mu_x (a^p x), a^p y$$

$$\mu_x a^p x = a^p y - \mu_x a^p x$$

$$b_n = 1 - x = y - 1 \rightarrow y = \varepsilon - x$$

$$\mu_x a^p x - a^p x = a^{\varepsilon - x} - \mu_x a^p x \rightarrow \mu_x a^p x - a^p x = a^{\varepsilon - x} \rightarrow \mu_x a^p x - a^p x = \varepsilon a^p x$$

$$a_1 = 1x - \varepsilon$$

$$-1x + \varepsilon + \mu_x a^p x = \mu_x a^p x$$

$$a_1 = a_1 + \varepsilon = 1x - 1$$

$$1x - 1 - (1x - \varepsilon) = 1x - 1 - 1x + \varepsilon = \varepsilon - 1 = \mu_x a^p x$$

$$a_2 = a_1 + \mu_x a^p x = 1x - \varepsilon + \mu_x a^p x = 1x + \mu_x a^p x$$

$$a_2 = a_1 + \mu_x a^p x \rightarrow 1x - \varepsilon + \mu_x a^p x = 1x + \mu_x a^p x$$

$$[d, d'] = 4$$

$$a'_n = a, 1, 1, \nu, \dots$$

$$1, a, 1, \dots, \mu, a, \nu, \dots$$

$$\mu + \mu(n-1)$$

$$\mu + \mu n - \mu = \mu n - 1$$

$$\mu + (n-1)\mu$$

$$\mu + \mu n - \mu = \mu n - 1$$

$$a_n = a + (n-1)\mu \rightarrow a + (19)4 = 117 + a = 119$$

$$\mu_{n-1} = \mu_{n+1} \rightarrow \mu_{n-1}$$

$$a + a + d + a + 4d = 10 \rightarrow a + d = 2$$

$$a + 4d + a + 8d = 14$$

$$2a + 12d = 14$$

$$2(a + d) + 10d = 14 \rightarrow 10 - 2d + 10d = 14$$

$$8d = 4 \rightarrow d = \frac{1}{2}$$

$$a_{10} = a + 9d = 2 + (9 \times \frac{1}{2}) = \frac{19}{2}$$

8

9

$$S_n = \frac{n}{2} (a_1 + a_n) \quad \frac{9}{2} [2a_1 + 17d] = 9 \times \frac{17}{2} [2a_1 + 17d] \quad \frac{a_{10}}{a_7} = \frac{19}{12}$$

~~a_{10}~~

$$9a_1 + 17d = 11a_1 + 17d \rightarrow 9a_1 + 17d = 11a_1 + 17d = 9d = 11a_1$$

$$d = \frac{11}{8} a_1 \quad a_n = \frac{1}{8} a_1 + (n-1)d \rightarrow a_{10} = a_1 + 9d = 19a_1, \quad a_7 = a_1 + 6d = 11a_1$$

$$a_1 = 11 \quad a_1 = 11 \quad d = \frac{11}{8}$$

$$a_7 = 11$$

$$a_1 + 6d = 11$$

$$11 - 6d = -6d$$

$$a_7 = a_1 + 6d = 11 + 6(\frac{11}{8}) = \frac{11 \times 14}{8} = \frac{154}{8} = \frac{77}{4}$$

10

9

15

$$a_1 + a_p + a_q = 10 \quad a_1 + a_p + a_q = 11$$

17

$$\frac{V}{-11} = -\frac{1}{11} \quad \frac{V}{-11} = -\frac{1}{11} \quad \frac{V}{-11} = -\frac{1}{11}$$

$$11a_1 + 11d = 11 \rightarrow 11a_1 = -11 \quad a_1 = -1$$

$$11a_1 + 11d = 10 \rightarrow 11d = 11 \quad d = 1$$

$$a_p - a_q = d + a_1$$

9

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