

نام و نام خانوادگی (نام و نام خانوادگی) پاسخنامه تشریحی تکلیف شماره ۱۳۰ کلاس (نام و نام خانوادگی) B

$$t_1 = 40$$

$$t_f = 61$$

$$t_f = t_1 + 2d = 61$$

$$t_f = 2d = 61 \quad \boxed{d = 30.5}$$

$$t_n = 101 \quad n = ?$$

$$t_n = 40 + 2(n-1) = 101 \quad 2(n-1) = 101 - 40$$

$$2(n-1) = 61$$

$$(n-1) = 30.5 \Rightarrow \boxed{n = 31.5}$$

$$9143 = 101$$

$$101, 101.1, 101.2, \dots, 999$$

$$\left(\frac{999 - 101}{1} \right) + 1 = \left(\frac{898}{1} \right) + 1 = 898 + 1 = 899$$

$$a_{n+2} = -2n + 12$$

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$$a_1 + a_{12} = ?$$

$$a_{12} \xrightarrow{n=12}$$

$$-2 \times 12 + 12 = -12$$

$$a_1 \xrightarrow{n=1}$$

$$-2 \times 1 + 12 = 10$$

$$\Rightarrow \boxed{-22}$$

$$t_{10} - t_{12} = 20$$

$$t_1 + 9d - t_1 - 11d = 20$$

$$-2d = 20 \quad \boxed{d = -10}$$

$$t_{10} + t_{12} = 120$$

$$2t_1 + 20d = 120 \Rightarrow 2t_1 + 20(-10) = 120$$

$$t_{12} = t_1 + 11d = \frac{120}{2} + \frac{-20 \times 11}{2} = \frac{120 - 220}{2} = \frac{-100}{2} = -50$$

$$2t_1 = 120 + 220 = 340$$

$$t_1 = \boxed{\frac{170}{2}} = 85$$

$$a_1 + a_r + a_p + a_f + a_w = \frac{1}{r} (a_f + a_v + a_1 + a_4 + a_{10})$$

$$\underline{a_1 + a_r + a_p + a_f + a_w} = \frac{1}{r} \times \omega d (a_1 + a_r + a_p + a_f + a_w)$$

$$\frac{\omega}{r} d = 1 \quad d = \frac{r}{\omega} \quad \frac{a_r}{a_1} = \frac{a_1 \times d}{a_1} = \frac{r}{\omega} \times \frac{1}{r}$$

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$$t_f = t_1 + 1\omega \rightarrow \omega = r d \quad \boxed{d = 1}$$

$$t_v = t_1 + r d$$

$$\frac{(t_f + k)^r - (t_v + k)^r}{(t_1 + k)^r - (t_v + k)^r} = \frac{t_f^r + r k t_f^{r-1} + \dots}{t_v^r + r k t_v^{r-1} + \dots}$$

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$$r(1 - \sqrt[n]{r}), \dots, r + \sqrt[n]{r}$$

$$d = \frac{r + \sqrt[n]{r} - r}{1r} = \frac{\sqrt[n]{r}}{r} = \boxed{\sqrt[n]{r}} \leftarrow \text{قدرة } r$$

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$$(f_n - r) + r = f_n - 1 \rightarrow \text{قوة } r$$

$$a_{f_n-1} = a_1 + (f_n - r)d = r r = r + (f_n - r)d$$

$$a_1 = r$$

$$(f_n - r)d = r r \quad d = \frac{r r}{f_n - r}$$

$$a_{f_n-1} = r r$$

يكون من قوة
قوة اول

$$a_{n+1} = a_1 + n d = r + n d = 11$$

$$\frac{r r}{f_n - r} = \frac{q}{n} \quad q(f_n - r) = r r n$$

$$n d = q \quad d = \frac{q}{n}$$

$$r r n - 11 = r r n \quad r r n = 11 \quad \boxed{n = r}$$

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$$a_n = a + (n-1)d$$

$$\underline{= \text{قوة } r \text{ من قوة } r = \text{قوة } r}$$

$$a_n + a_{n+r} = [a + (n-1)d] + [a + (n+r)d] = 2a + (2n+r)d$$

$$a_p + a_v = [a + r d] + [a + 1 r d] = 2a + 1 n d$$

$$2a + (2n+r)d = 2a + 1 n d$$

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$$\frac{n}{r} = r$$

$$a_n = r a_r$$

$$(2n+r)d = 1 n d \quad 2n+r = 1 n$$

$$r n = 1 r$$

$$a + r d = r(a + r d) \Rightarrow a + r d = r a + r d$$

$$r a + r d = 0 \quad \boxed{d = -a}$$