

کلاس دوم دبستان

کتاب ریاضی

موضوع: هندسه

$$a + d = 41 \Rightarrow 15 + 14d = 41 \quad 14d = 26 \quad d = 2$$

(1)

$$a + (n-1)d = 101 \quad 15 + (n-1) \cdot 2 = 101 \Rightarrow n = 45$$

$$n = 45$$

$$100 \leq n \leq 999$$

$$99 \leq n \leq 999$$

$$15 - 14 = 1$$

$$\frac{99}{2} \leq n \leq \frac{999}{2}$$

$$49.5 \leq n \leq 499.5$$

$$a_{n+1} = a + nd$$

$$a_{n+1} + a_n + a_{n-1} = a + nd + a + (n-1)d + a + (n-2)d = 3a + (2n-1)d$$

$$a_{n+1} = a + (n+1)d$$

$$3a + (2n-1)d = 3a + (2n+1)d \Rightarrow d = 0$$

$$a_{n+1} = a + (n+1)d$$

$$a_1 = 15, a_2 = 17, a_3 = 19 \Rightarrow d = 2$$

$$a_{10} = 15 + 9 \cdot 2 = 33$$

$$a_{10} = 15 + 9 \cdot 2 = 33$$

$$a_{10} = 15 + 9 \cdot 2 = 33$$

$$15 + (10-1) \cdot 2 = 33$$

$$a_{10} = 15 + 9 \cdot 2 = 33$$

$$a + d = 15 \Rightarrow a = 15 - d$$

$$a = 15 - d$$

$$a = 15 - d$$

$$a = 15 - d$$

$$15 + 14 = 29$$

$$a + d = 15 \Rightarrow d = 15 - a$$

$$a + d = 15 \Rightarrow d = 15 - a$$

$$a_{10} = 15 + 9 \cdot 2 = 33$$

$$a + d = 15 \Rightarrow d = 15 - a$$

$$a + d = 15 \Rightarrow d = 15 - a$$

$$\frac{a_r}{a_1} = \frac{15}{15} = 1$$

$$a + d = 15 \Rightarrow d = 15 - a$$

$$a + d = 15 \Rightarrow d = 15 - a$$

$$a = 15 - d$$

$$a_r = a + d = 15 + 2 = 17$$

$$t_n = t_{n-1} + d$$

$$t_n - t_{n-1} = d$$

$$a + (n-1)d = 101$$

$$15 + (n-1) \cdot 2 = 101$$

$$t_q - t_w = (t_q - t_w)(t_q + t_w)$$

$$(a + 15) - (a + 10) = 5$$

$$(t_q - t_w)(t_q + t_w) = 5(a + 10)$$

$$t_v = a + 10$$

$$\frac{t_q - t_w}{a + 10} = \frac{5(a + 10)}{a + 10} = 5$$

$$d = \frac{b-a}{k+1}$$

$$d = \frac{r_1 \sqrt{r} - r + 1 \sqrt{r}}{r+1} = \frac{r \sqrt{r}}{r+1} = \sqrt{r}$$

①

$$d = \frac{b-a}{k+1}$$

$$d = \frac{r-r}{r_n-r+1} = \frac{r_0}{r_n-r} = \frac{12}{r_n-1}$$

$$a_{n+1} = a + nd = r + n \left(\frac{12}{r_n-1} \right) = 11$$

②

$$n \left(\frac{12}{r_n-1} \right) = 9 \quad 12n = 9(r_n-1) = 9r_n - 9$$

$$12n = 9r_n - 9$$

$$\frac{-r_n}{-9} = \frac{-9}{-9} \Rightarrow n = 9$$

$$a_n + a_{n+k} = a_k + a_{11}$$

③

$$a + (n-1)d + (a + (n+k)d) = a + rd + a + 12d \Rightarrow ra + (r_n+r)d = ra + 12d$$

$$r_n d + r d = 12d$$

$$r_n d - 12d = 0$$

$$rd(n-1) = 0$$

$$a + (k-1)d = 0$$

$$-d + kd = 0$$

$$-rd + kd = 0$$

$$d(-r+k) = 0$$

$$k = r$$

$$a_n = r a_r \Rightarrow a + rd = r(a + rd)$$

$$a + rd = ra + rd$$

$$-ra = rd \Rightarrow a = -d$$