

$$f(n) = f(n+1)$$

$$\frac{1}{n} \left(\frac{1}{n} + \frac{1}{n} + \frac{1}{n} + \frac{1}{n} + \dots \right)$$

$$1, 1, \sqrt{2}$$

1. دیا تا دهن خزان

$$1, \sqrt{2}$$

$$f(1) + 1 = f(2)$$

$$f(1) + 1 = f(2)$$

$$\frac{1}{p} (p a_1 + (1-p) d)$$

$$\frac{1}{p} (p a_1 + (1-p) d) = \frac{1}{p} (p a_1 + (1-p) d)$$

$$1, \sqrt{2}$$

$$a_1 + a_2 + a_3 + a_4 = p(a_1 + a_2 + a_3 + a_4) = 4p$$

$$\left. \begin{aligned} a_1 &= p \\ a_2 &= p \\ a_3 &= p \\ a_4 &= p \end{aligned} \right\} 4p$$

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

$$a_1 + a_2 + a_3 + a_4 = p(a_1 + a_2 + a_3 + a_4) = 4p$$

$$d = a_2 - a_1 = a_3 - a_2 = a_4 - a_3$$

$$a_n = 1 + \sqrt{2} + (n-1)(1 - \sqrt{2})$$

$$1, \sqrt{2}$$

$$d_1 = p - (1 + \sqrt{2}) = 1 - \sqrt{2}$$

$$a_{p-1} = 1 + \sqrt{2} + (p-2)(1 - \sqrt{2}) = p - (p-2)\sqrt{2}$$

$$1, \sqrt{2}$$

$$d_2 = p - \sqrt{2} - p = 1 - \sqrt{2}$$

$$a_{p-2} = 1 + \sqrt{2} + (p-3)(1 - \sqrt{2}) = p - (p-3)\sqrt{2}$$

$$d_1 = d_2 \Rightarrow d = 1 - \sqrt{2}$$

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

$$b_n = p - a_n = p - a_n = p - a_n$$

$$\left. \begin{aligned} y &= p+1 \\ y &= p-1 \\ y &= p \end{aligned} \right\} \begin{aligned} p+1 &= p-1 \\ p-1 &= p \\ p &= p \end{aligned}$$

$$1, \sqrt{2}$$

$$p_n = p, p_{n-1} = p, p_{n-2} = p$$

$$p_n = p_{n-1} = p$$

$$p_n = p_{n-1} = p$$

$$t_1 = p + \frac{1}{p} = p + \frac{1}{p}$$

$$t_n = p + \frac{1}{p} (n-1)$$

$$t_n = p + \frac{1}{p} (n-1)$$

$$1, \sqrt{2}$$

$(1) a_1 + a_2 + a_3 = 10$
 $(2) a_1 + a_2 + a_3 = ?$
 $(3) a_1 + a_2 = a_3 = 10$
 $(4) a_1 + a_2 + 2d + a_1 + 4d = 10$
 $2a_1 + 6d = 10 \Rightarrow a_1 + 3d = 5$

$a_n = a_1 + (n-1)d$
 $a_2 = a_1 + d$
 $a_3 = a_1 + 2d$
 $a_4 = a_1 + 3d$

$(5) a_1 + 2d - a_1 + d + a_1 = ?$
 $-1 + (2+1)d + 1 = 2d$
 $-1 = 2d$

$a_1 + a_2 + a_3 = 10$
 $a_1 + a_2 + a_3 = 10$
 $a_1 + a_2 + a_3 = 10$

$a_n = 1, 2, 3, \dots, a_n$
 $a_1 = 1, a_2 = 2, a_3 = 3, \dots$
 $b_m = 1, 2, 3, \dots, b_m$
 $a_1 = 1, a_2 = 2, a_3 = 3, \dots$
 $b_1 = 1, b_2 = 2, b_3 = 3, \dots$
 $a_1 + a_2 + a_3 = 10$
 $b_1 + b_2 + b_3 = 10$

$a_1 + a_2 + a_3 = 10$
 $b_1 + b_2 + b_3 = 10$

$a_1 + a_2 + a_3 = 10$
 $b_1 + b_2 + b_3 = 10$

$a_1 + a_2 + a_3 = 10$
 $a_1 + a_2 + a_3 = 10$
 $(a_1 + 2d) + (a_1 + 4d) = 10$
 $2a_1 + 6d = 10$
 $a_1 + 3d = 5$
 $d = 1$

$a_1 + a_2 + a_3 = 10$
 $a_1 + a_2 + a_3 = 10$
 $(a_1 + 2d) + (a_1 + 4d) = 10$
 $2a_1 + 6d = 10$
 $a_1 + 3d = 5$
 $d = 1$

$a_1 + a_2 + a_3 = 10$
 $a_1 + a_2 + a_3 = 10$
 $(a_1 + 2d) + (a_1 + 4d) = 10$
 $2a_1 + 6d = 10$
 $a_1 + 3d = 5$
 $d = 1$

$S_9 = \frac{9}{2} (2a_1 + 17d) = \frac{9}{2} (2a_1 + 17d)$
 $9(a_1 + 17d) = 9(2a_1 + 17d)$
 $a_1 + 17d = 2a_1 + 17d$
 $a_1 = 0$

$a_1 = 0$
 $a_2 = d$
 $a_3 = 2d$
 $a_4 = 3d$
 $a_5 = 4d$
 $a_6 = 5d$
 $a_7 = 6d$
 $a_8 = 7d$
 $a_9 = 8d$

$a_1 = 0$
 $a_2 = d$
 $a_3 = 2d$
 $a_4 = 3d$
 $a_5 = 4d$
 $a_6 = 5d$
 $a_7 = 6d$
 $a_8 = 7d$
 $a_9 = 8d$

$a_1 = 11$
 $a_2 = 13$
 $a_3 = 15$
 $a_4 = 17$
 $a_5 = 19$
 $a_6 = 21$
 $a_7 = 23$
 $a_8 = 25$
 $a_9 = 27$

$a_1 = 11$
 $a_2 = 13$
 $a_3 = 15$
 $a_4 = 17$
 $a_5 = 19$
 $a_6 = 21$
 $a_7 = 23$
 $a_8 = 25$
 $a_9 = 27$

$a_1 = 11$
 $a_2 = 13$
 $a_3 = 15$
 $a_4 = 17$
 $a_5 = 19$
 $a_6 = 21$
 $a_7 = 23$
 $a_8 = 25$
 $a_9 = 27$