

الف: k_{n+1}

$$t_n = 5, 9, 13, 17, \dots$$

$+ \varepsilon + \varepsilon + \varepsilon$

ب: $k(10) + 1 = k1$

$$t_n = 9, 10, 11, 12, \dots \quad k_{n+1}$$

$+ \varepsilon + \varepsilon \dots$

$n=10 \rightarrow k1$

الف: $\frac{9+k1}{1} \times 10 = 150$

ب:

$$1 + \sqrt{13}, 2, 3 - \sqrt{13}, \dots \quad d = 2 - (1 + \sqrt{13}) = 1 - \sqrt{13} \Rightarrow \sqrt{1 - \sqrt{13}} \quad (3)$$

$$t_{10} - t_{11} = 1d \rightarrow \sqrt{1 - \sqrt{13}}$$

$$a_n = 2^{p_x}, 1 \times 2^{p_x}, 2^{p_x} \rightarrow 2^{p_x} \times 2^{p_x} - 2^{p_x} = 2^{p_x}(2) = 2 \times 2^{p_x} \quad (4)$$

$$b_n = x, 1, y \rightarrow x + y = 1$$

$$2^{p_x} - 1 \times 2^{p_x} = 2^{p_x}$$

$$2^{p_x} = 2^{p_x+1} \rightarrow y = p_x + 1$$

$$x + p_x + 1 = 1 \quad y = 1$$

$$x + p_x = 0 \quad x = 0$$

$$p_x = 1, p_x = 1, 9, \dots \rightarrow d = 1 - 1 = 0$$

$$p_x - p_x + 1 = 1$$

$$-p_x = 1$$

$$a_n = 1, 2, 3, \dots$$

$$b_n = 1, 2, 3, \dots$$

$$k1$$

$$a_1 + a_2 + a_3 = 11 \rightarrow 1a_1 = 11 \quad a_2 = 11$$

$$a_1 + a_2 + a_3 = 10 \quad 1a_1 = 10 \quad a_2 = 10$$

$$d = 10 - 11 = -1$$

$$a_1 = -1$$

$$a_2 - a_1 + a_3 = 10 - 11 = -1$$

$$a_1 + a_r + a_r = 1d \quad \frac{1d}{a_r = 21} \quad d = 1^w$$

(1)

$$a_\varepsilon + a_\Delta = \frac{1d}{r_{ar}}$$

$$a_1 + a_r + a_r + a_\varepsilon + a_\Delta = \varepsilon_0 \rightarrow \Delta a_\varepsilon = \varepsilon_0 \quad a_\varepsilon = 11$$

$$x_n = 1^w n - 1 \rightarrow a_{10} = 1^w 9$$

$$S_9 = 9 S_r$$

$$S_9 = 9 \left(\frac{a_1 + a_9}{2} \right) = \frac{1^w 9}{2} \left(\frac{a_1 + a_9}{2} \right)$$

$$\frac{a_1 + a_9}{2} = \frac{1^w a_1 + 1^w a_r}{2}$$

$$a_1 = a_1 + 1^w d - 1^w a_1 - 9d$$

$$a_1 = a_1 + 9 \times 1^w a_1 = 1^w a_1$$

$$1^w a_1 = 1^w d \rightarrow a_1 = \frac{1}{2} d \rightarrow d = 2^w a_1$$

$$a_1 + a_9 = 1^w a_1 + 1^w a_r$$

$$1^w a_1 = a_9 - 1^w a_\varepsilon \rightarrow 1^w a_1 = a_9 - 1^w (a_1 + 1^w d)$$

$$a_{10} = a_1 + 9 \times 1^w a_1 \rightarrow \frac{1^w 9 a_1}{2} \quad a_{10} = 1^w 9$$

$$a_1 = 11$$

$$a_1 = 1^w 1$$

$$1^w 1, \dots, \dots, \dots, 1^w 10$$

$$a_v = 1^w a$$

$$d = \frac{1^w a - 11}{9} = \frac{1^w 1}{9} = 1^w$$

$$1^w n + 1^w v = a_n \rightarrow a_\varepsilon = 1^w 1$$

$$S_9 = 9 S_r$$

$$1^w 1 - 1^w d = 1^w 1$$

$$- 1^w d = 1^w 1 - 1^w 1$$

$$d = -d \quad 1a$$