

Date:

Sub:

المسألة

20

$$t_n = 0, 1, 1, 1, \dots$$

$\xrightarrow{+1}$ $\xrightarrow{+1}$
 $+1$ $+1$

$$t_n = n+1$$

الف

2/1

$$t_1 = F(1) + 1 = 1$$

ب

$$F_{n+1}$$

$$t_n = 0, 1, 1, 1, \dots$$

$$S_1 = \frac{1}{1}((1 \times 1) + (1 \times 1)) = 2$$

الف

2

$$t_{19} + t_{18} + t_{17} + t_{16} =$$

$$S_4 = \frac{1}{1} (1 \times 1) = 1$$

ب

$$t_{19} = F_{19} + 1 = 11$$

$$t_{18} = F_{18} + 1 = 14$$

$$t_{19} - t_{18} =$$

$$d = 1 - \sqrt{2} = 1 - \sqrt{2}$$

$$t_{19} - t_{18} = 1 - \sqrt{2}$$

2/1

$$a_n = a^x, x \times a^x, a^y$$

$$a^x \times x^x = a^x (x-1)$$

$$a^y = a^x \times x^x$$

$$a^y (1) = a^x (x^x - 1)$$

$$a^{y-x} = 1$$

$$y-x=1$$

$$y = x+1 \Rightarrow y = 1-x+1$$

$$x=y=1$$

$$b_n = x, y, y$$

$$1-x=y-1$$

$$1-y=x$$

$$1-x+y=1-x-1$$

$$1-x=1-x$$

$$x=1$$

$$1, 0, 1, \dots$$

$$t_n = n-1$$

$$t_1 = 1(1) - 1 = 0$$

2/1

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کتاب و مشق

$$a_n = 5, 9, 13, 17, 21, 25, \dots \quad n=2, \quad r_{n+1} = 4$$

$$b_n = 2, 6, 10, 14, 18, 22, \dots \quad r_{n-1} = 4$$

$$c_{n-1} \leftarrow$$

$$c_{n-1} \neq 1$$

$$c_n \neq 2$$

$$n \leq 10, \quad \sum_{j=1}^n a_j \leq 10$$

$$a_1 + a_2 + a_3 = 11 \quad a_1 + a_2 = 5 \quad a_3 = 6 \quad a_2 = 4$$

$$a_1 + a_2 + a_3 = 11 \quad a_1 + a_2 = 5 \quad a_3 = 6 \quad a_2 = 4 \Rightarrow a_1 = -1$$

$$a_2 - a_1 + a_3 = 6 - 4 - 1 = 1$$

$$\frac{1}{a_1} = \frac{-1}{1} = -1$$

$$S_2 = \frac{1}{1} (a_1 + a_2) = 4 \quad S_3 = \frac{1}{1} (a_1 + a_2 + a_3) = 10$$

$$a_2 + a_3 = 5 + 6 = 11$$

$$a_1 = 5(1) - 1 = 4$$

$$a_1 + a_2 = -1 + 4 = 3$$

$$2, 6, 10, 14, \dots$$

$$d = 4, \quad a_1 = 2$$

$$a_n = 4n - 2$$

$$S_4 = 4S_2$$

$$\frac{1}{4} (4a_1 + 6d) = \frac{1}{4} (4a_1 + 6d)$$

$$4a_1 + 6d = 4a_1 + 6d$$

$$4a_1 = 6d$$

$$d = 2a_1$$

$$\frac{a_2}{a_1} = \frac{a_1 + d}{a_1} =$$

$$\frac{a_1 + 2a_1}{a_1 + 4a_1} = \frac{3a_1}{5a_1} = \frac{3}{5}$$

$$\frac{3}{5}$$

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کتابخانه

$$a_1 = 11$$

$$11, 12, 13, \dots$$

دنباله

10

$$a_n = a_1 + (n-1)d = 11 + (n-1) \cdot 1$$

$$a_n = 11 + (n-1) = 10n$$

←

3

$$d = 1$$

$$d = 1$$

$$a_1 = 11$$

$$a_n = 10n$$

دنباله

←

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

$$11, 12, 13, 14, 15, \dots$$

$$12 = 11 + 1$$

$$d = 1$$

کتابخانه