

$29, 13, 16$
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سوال ۱۱

 f_{n+1} (الف)

$$x|_0 + 1 = 1 \quad (-)$$

4, 10, 14, 18,

سوال (2)

$$\Delta \frac{10\%}{1\%} (1 \times 9 + 9 \times 1) = \Delta x \times 1 \times 1 \times 10 \quad (10)$$

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f x $\wedge$ c w y

$$\frac{t_{qr} t_r + t_{r1} + t_{rr}}{\cancel{r \times r r r} \quad r q r} = \cancel{r t_{r1}} = t_{r1} = t_1 + \frac{q_0 d}{\cancel{r \epsilon_0}} = \frac{q_1 r q_0}{r \epsilon_0} \quad \cancel{r r r}$$

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سوال (3)

$$\begin{array}{ccc} \text{(d)} & \text{(r)} & \text{(w)} \end{array} \quad \text{(3)}$$
$$\begin{array}{ccc} 1 + \sqrt{3} & 2 & 2 - \sqrt{3} \end{array} \quad \begin{array}{ccc} (23) & (24) & (25) \end{array}$$
$$\begin{array}{ccc} \underbrace{2 - 1 - \sqrt{3}}_{1 - \sqrt{3}} & \underbrace{2 - \sqrt{3} - 2}_{1 - \sqrt{3}} & \underbrace{1 - \sqrt{3} \quad 1 - \sqrt{3}}_{1 - \sqrt{3} + 1 - \sqrt{3} = 2 - 2\sqrt{3}} \end{array}$$

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$$d^x, x, d^y \rightarrow r(x, d^y) = d^x + d^y \quad \checkmark$$

① 15 Nov

$$r_{n-1}, r_{n-1}, y_n$$

$$5n - 7 = 4n + 7n - 7$$

$$\vdash x - 1 = \wedge x - 1$$

$$Y = Yx$$

$$\frac{1}{Y} = n$$

$$X \begin{matrix} \nearrow \\ \gamma \end{matrix} \begin{matrix} \searrow \\ \gamma \end{matrix} V \quad 0 \quad I \begin{matrix} \nearrow \\ \gamma \end{matrix} \begin{matrix} \searrow \\ \mu \end{matrix} \quad X \quad X \quad \textcircled{4}$$

(a) $\frac{1}{2}$

0100

(4) *Id.*

$$\begin{array}{c} \text{II} \quad \text{IV} \\ \text{---} \quad \text{---} \\ \text{y} \quad \text{y} \end{array}$$

$0 = 4n - 1 \Rightarrow n \geq 0 = 0^9$

$4n - 1 < 41 \Rightarrow 4n < 42 \quad n < 11$

$$\begin{aligned} -r(a_1 + a_r + a_{2r} &= 21) \\ a_1 + a_r + a_{2r} &= 1-d \\ a_{2r} - a_r &= 11 \\ a_r &= 11 \end{aligned}$$

$$\begin{aligned} a_r - a_r + a_1 \\ a_1 + a_1 &= \frac{2a_1}{1} = 2 \end{aligned}$$

سوال ۷

$$a + a + d + a + d = 3a + 2d = 14$$

$$a + 3d + a + 3d = 2a + 6d = 24$$

$$\begin{aligned} 4a + 2d &= 14 \\ -4a - 6d &= -24 \end{aligned}$$

$$\begin{aligned} 8d &= 38 \\ d &= \frac{19}{4} \end{aligned}$$

$$\begin{aligned} 3a + 2 \times \frac{19}{4} &= 14 \\ 3a &= 10 \\ a &= \frac{10}{3} \end{aligned}$$

$$\frac{10}{3} + 10 \times \frac{19}{4} = \frac{300}{4} + \frac{10}{3} = 75 + \frac{10}{3} = 78\frac{2}{3}$$

سوال ۹

$$S_9 = 9S_5 \Rightarrow a_1 + a_r + a_{2r} + a_5 + a_{10} + a_{15} + a_{20} + a_{25} + a_{30} = 9(a_1 + a_5 + a_9) = 9(3a_1) = 27a_1$$

$$\Rightarrow 9a_1 = 27a_1 \Rightarrow a_1 = 3a_r$$

$$a + 4d = 3a + 2d \Rightarrow a = \frac{d}{2} \Rightarrow \frac{a_{10}}{a_5} = \frac{a + 9d}{a + 4d} = \frac{\frac{a + 9d}{2}}{\frac{d + 19d}{2}} = \frac{a + 9d}{d + 19d}$$

$$a_1 = 11, a_{10} = 3a_1 \Rightarrow d_1 = \frac{3a_1 - 11}{9} = \frac{22}{3}$$

$$a_r = a + 3d = 11 + 12 = 23, b_r \rightarrow b_2 = 3r, b_1 = 31 \rightarrow d' = \frac{23 - 31}{3} = -\frac{8}{3}$$

$$b_n = 31, 23, 15, 7, -1, -9$$