

نام و نام خانوادگی نام و نام خانوادگی کلاس کلاس پاسنامه تشریحی تکلیف شماره کلاس کلاس

$$\frac{x}{y}, u, xy \quad \frac{x}{y} \times xy \times xy = x^3 = 4F \rightarrow x = F$$

$$\frac{F}{y}, F, Fy \quad \frac{F + Fy + Fy^2}{y} = \frac{y}{1} \rightarrow F + Fy + Fy^2 = y$$

$$Fy^2 - 1y + F = 0 \rightarrow y^2 - 1y + 1 = 0 \rightarrow (y-1)(y-1) = 0$$

$$y = \frac{1}{x} \quad \text{جواب نهایی} \quad y = \frac{1}{x} \quad y = F$$

$$Fxy = (x^2 - y)(x^2 + F)$$

$$Fxy = x^2 + Fx^2 - yx^2 - F \rightarrow x^2 - yx^2 - F = 0 \rightarrow (x^2 - F)(x^2 + F) = 0 \rightarrow x^2 - F = 0 \rightarrow x = \pm \sqrt{F}$$

$$x = \sqrt{F} \rightarrow A, F, y \rightarrow q = \frac{1}{\sqrt{F}}$$

$$x = -\sqrt{F} \rightarrow A, -F, y \rightarrow q = -\frac{1}{\sqrt{F}} \quad \text{جواب نهایی}$$

$$Sv = a_1 \left(\frac{1 - q^n}{1 - q} \right) = A \times \left(\frac{1 - \left(\frac{1}{\sqrt{F}}\right)^n}{1 - \frac{1}{\sqrt{F}}} \right) = \left[\frac{12V}{A} \right]$$

$$a + q^2 + q^4 + q^6 = \frac{121}{A1} - \frac{A1}{A1} = \frac{F_0}{A1}$$

$$q(1 + q) + q^3(1 + q) = \frac{F_0}{A1}$$

$$(1 + q)(q + q^3) = \frac{F_0}{A1} = 3F = 3 \times 3 \rightarrow \text{جواب نهایی}$$

$$q = \frac{1}{3} \rightarrow (1 + \frac{1}{3})(\frac{1}{3} + \frac{1}{27}) = \frac{F_0}{A1} = \frac{F_0}{A1} \rightarrow \text{جواب نهایی}$$

$$a_1 = 1, 0, 0, 0, 0, 0, 4F$$

$$a_v = a_1 + 4d \rightarrow 4d = 4F \rightarrow d = 10, 15$$

$$1, 11, 15, 22, 32, 44, 59, 74$$

$$A = 32, 15$$

$$A + B = 32, 15 + 1 = \left[\frac{F_0}{A1} \right]$$

$$A + B = 32, 15 - 1 = \left[\frac{F_0}{A1} \right]$$

$$a_1 = 1, 0, 0, 0, 0, 0, 4F$$

$$a_v = a_1 r^4 = 4F \rightarrow r^4 = 4F \rightarrow r = \sqrt[4]{4F}$$

$$1, 2, 4, 8, 16, 32, 64$$

$$1, -2, 4, -8, 16, -32, 64$$

$$a_n = \frac{-99}{F} + (n-1) \frac{1}{F} \rightarrow \frac{-99}{F} + \frac{100}{F} = \frac{F}{F} = 1$$

$$128, a_2, \dots \rightarrow a_1 = 128$$

$$a_n = a_1 r^{n-1} = 1 \rightarrow 128 \times r^{n-1} = 1 \rightarrow r^{n-1} = \frac{1}{128} \rightarrow r = \frac{1}{128}$$

$\begin{aligned} &ar \quad av \quad aa \\ &a_1+rd \quad a_1+rd \quad a_1+nd \\ &(a_1+rd)^r = (a_1+rd)(a_1+nd) \rightarrow ar^r + r^2 d^r + 11ra_1d = ar^r + 11a_1d + ra_1d + 11d^r \\ &ar, av, aa \\ &a_1 \rightarrow a_1 \quad a_1 \rightarrow d=0 \\ &ar \quad av \quad aa \\ &-nd \quad -rd \quad -rd \rightarrow \frac{r+d}{-10} \rightarrow \frac{a_1}{-10} \quad \left[\frac{a_1}{-10} = -10d \right] \end{aligned}$	6
$\begin{aligned} &ar \quad ar \quad aa \\ &a_1+d \quad a_1+rd \quad a_1+vd \\ &ra_1, r^2a_1, 11a_1 \\ &\frac{d}{a_1} = r \\ &\frac{d}{a_1} = \frac{1}{r} \\ &a_{10} = a_1(q)^{n-1} \rightarrow \frac{1}{r} \times (r)^9 = r^{-2} \times r^9 = r^7 = 1728 \end{aligned}$	7
$\begin{aligned} &r+r, r+r, r \\ &r+r, r+r, r \rightarrow r+r = \frac{r+r}{r} \rightarrow r+r = r+r+r \\ &r+r = r+r+r = 0 \\ &r+r = r+r+r = 0 \\ &r+r = r+r+r = 0 \end{aligned}$	8
$\begin{aligned} &an = \frac{1}{F} + (n-1) \cdot \frac{1}{F} \rightarrow an = \frac{1}{F} - \frac{1}{F}n + \frac{1}{F} \rightarrow an = \frac{1}{F} - \frac{1}{F}n \rightarrow ar = \frac{1}{F} / a_1 = \frac{1}{F} / a_n = -\frac{F}{F} \\ &ar \quad a_1 \quad a_n \\ &\frac{1}{F} \quad \frac{1}{F} \quad -\frac{F}{F} = -1 \\ &\frac{1+F}{F} = \frac{n-1}{1-F} \Rightarrow \frac{F(1+F)}{F(2+F)} = \frac{F(n-1)}{F(n+1)} \Rightarrow (F+1)(F+1) = (F-1)(2+F) \\ &14F+1+11F = 20F-20+14F-14F \\ &11F-20F+14F = -20-1 \\ &F = -21 \rightarrow n = -\frac{21}{F} \\ &\frac{1}{F} - \frac{21}{F}, \frac{1}{F} - \frac{21}{F}, -\frac{F}{F} - \frac{21}{F} \rightarrow -\frac{14}{F}, -\frac{20}{F}, -\frac{20}{F} \rightarrow \frac{-20}{-14} = \frac{F-20}{F-14} = \frac{-20}{-14} = \frac{20}{14} = \frac{10}{7} = \frac{1}{F} = \frac{1}{F} \end{aligned}$	9
$\begin{aligned} &(a_1) \quad ar \quad ar \quad (ar) \quad aa \quad ay \quad (av) \\ &(a_1) \quad ar \quad ar^r \quad (ar^r) \quad ar^F \quad ar^a \quad (ar^9) \\ &a_1 + ar^r + ar^9 = V^r \\ &a_1(1+r^r+r^9) = V^r \rightarrow 1 \times V^r \\ &b \rightarrow a_1 = 1 \quad 1+r^r+r^9 = V^r \rightarrow r^r+r^9 = V^r \rightarrow V^r(1+r^r) = V^r \rightarrow 1 \times 9 = V^r \rightarrow \sqrt{r} = 2 \\ &b \rightarrow a_1 = V^r \quad 1+r^r+r^9 = 1 \rightarrow r^r+r^9 = 0 \rightarrow r = 0 \end{aligned}$	10

$$r=1 \rightarrow r^a = 1^r \rightarrow a = \frac{V^r}{r}$$

$$ar^r - a = d \rightarrow \frac{V^r}{r} - \frac{V^r}{r} = 0 \rightarrow d = 0$$